



ANEXO 6: CERTIFICADOS DE CALIBRACIÓN



SEBA - HYDROMETRIE

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Kunde: SQM Salar S.A., CHILE
Auftragsnummer: RK16-00893

Prüf- und Kalibrierzertifikat für Wasserqualitäts-Sonden

Gerätedaten Sonde:

Gerätetyp:	MPS-D3	Software-Version:	4.07
Serien-Nr.:	4308	Bedienprogramm Sonde:	SebaConfig
Adresse:	32	Schnittstelle:	RS485
Revision-Nr.:	3.01		

Kalibrierung und Kontrolle:

Sensor	Einheit	Ist	Soll
Temperatur	°C	24,994	25
Leitfähigkeit	mS	1,852	1,85
Druck	m	-0,86	-0,972

Temperatur: Kalibrierung Quecksilberthermometer (+/-0,02°C) bei 1°C und 25°C; Leitfähigkeit: Kalibrierung mit Präzisionswiderständen (+/-0,05%), Abgleich Zellkonstante mit WTW Referenzgerät Cond. 330i Zelle Tetracon 325, kalibriert mit Primärstandard 1413µS N.I.S.T. zertifiziert; Druck: Kalibrierung mit Druckgerät DPI 600, 1.Pkt. 0 mWs und am Messbereichsende; pH: Kalibrierung mit Puffer pH4 und pH7 (zertifiziert gemäß N.I.S.T.); O₂: Kalibrierung 0-Wert mit Sulfidlösung und wasserdampfgesättigter Luft, Kontrolle in 100% sauerstoffgesättigtem Wasser; Redox: Kontrolle mit 220mV Redoxlösung (Qualitäts zertifiziert); Trübung: 1.Pkt. 0-Punkt Dest. Wasser (Wasser zur Analyse), 2. Pkt. Polymerstandard abgeglichen mit zertifiziertem Formazin Trübungs-Standard.

Einstellungen Parameter:

Leitfähigkeit: T-komp: nLf T-ref: 25°C TDS-Faktor: 0,67 mg/l
Druck: Messbereich: 0-600 m absolut Messart: Wasserhöhe über Sensor

Kaufbeuren, 12.04.17

Prüfer: kc

.....*Koch*.....

Solinst Canada Ltd.

35 Todd Road
Georgetown, ON
Canada L7G 4R8

Tel: (905) 873-2255; (800) 661-2023

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Limited Warranty

Solinst Canada Ltd. (Solinst) hereby warrants to the user, subject to the conditions outlined herein, that all standard products manufactured by Solinst, will be free of defects in workmanship and materials for a period of three years from the date of shipment from Solinst, with the exception of the 3001 Levellogger® Junior Series, Power Reels, 101B Water Level Meters, Telemetry Systems (9100 & 9200), 401 Waterloo Multilevel Systems and 403 CMT Multilevel Systems, which have limited warranties of one year.

Solinst warrants to repair or, at its option, replace any such defective equipment determined to its satisfaction to have a defect in workmanship or original material, upon return of such defective equipment to Solinst with all shipping charges prepaid by the user, provided that written notice and an explanation of the claimed defect is promptly submitted to Solinst.

In no event shall Solinst be liable for any direct, indirect, consequential or special damages, abuse, acts of third parties, environmental conditions, force of nature, or for installation, adjustment or other expenses which may arise in connection with such defective equipment. Further, this warranty shall not apply to damage to the equipment caused by incorrect installation, usage, storage, alteration or inadequate care.

This warranty does not apply to parts, assemblies or devices not manufactured by Solinst which are covered by other manufacturers' warranties. There are no warranties except as specifically provided in writing herein.

May 8, 2015



Calibration Report

Report Number: 20161024-482711

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **482711**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-10-24 13:06:00 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	5.0007	0.0006	PSI
Pressure	2.0000	2.0004	0.0004	PSI
Pressure	0.0003	0.0004	0.0001	PSI
Temperature	38.7860	38.7826	-0.0034	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015965
Manu Mensor Model APC600 SerialNo 613167
Manu Instrulab Model 3312A-14-15-24 SerialNo 31099
Manu Instrulab Model 406X-0031-01 SerialNo 1-31138
Manu Mensor Model APC600 SerialNo 622745
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: **RG**

PM-1



Calibration Report

Report Number: 20160913-476352

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **476352**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-09-13 15:47:44 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9996	-0.0004	PSI
Pressure	2.0000	2.0007	0.0007	PSI
Pressure	0.0001	-0.0005	-0.0006	PSI
Temperature	38.7900	38.8261	0.0361	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015965
Manu Mensor Model APC600 SerialNo 613167
Manu Instrulab Model 3312A-14-15-24 SerialNo 31099
Manu Instrulab Model 406X-0031-01 SerialNo 1-31138
Manu Mensor Model APC600 SerialNo 410008DR
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: **RG**

71-2

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **482762**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-10-26 19:34:33 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	4.9997	-0.0003	PSI
Pressure	2.0000	1.9998	-0.0002	PSI
Pressure	0.0004	-0.0003	-0.0007	PSI
Temperature	38.7860	38.7817	-0.0043	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44015965

Manu Mensor Model APC600 SerialNo 613167

Manu Instrulab Model 3312A-14-15-24 SerialNo 31099

Manu Instrulab Model 406X-0031-01 SerialNo 1-31138

Manu Mensor Model APC600 SerialNo 622745

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: EC

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **491952**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-12-22 12:04:37 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0 PSI to 5 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	4.9988	-0.0013	PSI
Pressure	2.0001	1.9992	-0.0009	PSI
Pressure	0.0000	-0.0006	-0.0007	PSI
Temperature	39.0850	39.0892	0.0042	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44041151
Manu Mensor Model CPC6000 SerialNo 610915
Manu Instrulab Model 3312A-14-15-24 SerialNo 31102-(41037)
Manu Instrulab Model 406X-0031-01 SerialNo 2-31138
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: EC



Calibration Report

Report Number: 2016060703426-394496

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 394496

Calibration Details:

Calibration Result: PASS
Calibration Date: 2016-06-07 03:42:6 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0018	5.0025	0.0130
Pressure	2.1008	2.1016	0.0178
Pressure	0.0000	0.0008	0.0165
Temperature	24.9220	24.9312	0.0092

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44002373
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

P1-5

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **491955**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-12-22 02:54:20 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9998	-0.0002	PSI
Pressure	2.0000	1.9992	-0.0007	PSI
Pressure	-0.0002	-0.0005	-0.0002	PSI
Temperature	38.7740	38.7688	-0.0052	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44015965

Manu Mensor Model APC600 SerialNo 613167

Manu Instrulab Model 3312A-14-15-24 SerialNo 31099

Manu Instrulab Model 406X-0031-01 SerialNo 1-31138

Manu Mensor Model APC600 SerialNo 622745

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: KK

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **491920**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-12-21 15:41:01 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	4.9999	-0.0002	PSI
Pressure	2.0000	1.9987	-0.0014	PSI
Pressure	0.0001	-0.0009	-0.0009	PSI
Temperature	39.0770	39.0816	0.0046	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44041151
Manu Mensor Model CPC6000 SerialNo 610915
Manu Instrulab Model 3312A-14-15-24 SerialNo 31102-(41037)
Manu Instrulab Model 406X-0031-01 SerialNo 2-31138
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: EC

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **491904**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-12-21 14:55:43 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9989	-0.0011	PSI
Pressure	1.9999	2.0000	0.0000	PSI
Pressure	0.0002	-0.0007	-0.0008	PSI
Temperature	38.7740	38.7716	-0.0024	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44015965

Manu Mensor Model APC600 SerialNo 613167

Manu Instrulab Model 3312A-14-15-24 SerialNo 31099

Manu Instrulab Model 406X-0031-01 SerialNo 1-31138

Manu Mensor Model APC600 SerialNo 622745

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: EC

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **119194**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-06-10 21:33:17 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	4.9982	-0.0349
Pressure	2.1000	2.0981	-0.0383
Pressure	0.0002	-0.0026	-0.0568
Temperature	24.6790	24.6949	0.0159

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 30117
Manu Instrulab Model 832-151-01 SerialNo 834
Manu Mensor Model CPC6000 SerialNo 410009W9
Manu Mensor Model CPC6000 SerialNo 410007P4

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: WN

43-10

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **405892**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2017-03-31 06:50:36 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0004	0.0089
Pressure	2.1000	2.0999	-0.0024
Pressure	0.0002	0.0003	0.0033
Temperature	24.8990	24.9111	0.0121

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR



Calibration Report

Report Number: 20170331065036-405897

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 405897

Calibration Details:

Calibration Result: PASS
Calibration Date: 2017-03-31 06:50:36 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0001	0.0027
Pressure	2.1000	2.1001	0.0012
Pressure	0.0002	0.0001	-0.0024
Temperature	24.9000	24.9069	0.0069

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34980A SerialNo MY44001931

Manu Instrulab Model 4312A-15 SerialNo 41014

Manu Instrulab Model 832-151-01 SerialNo 12083

Manu Mensor Model CPC6000 SerialNo 410008J4

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 622004

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

13-9



Calibration Report

Report Number: 20160323-451114

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI / 3.5 m / 11.5 ft / vented
Serial Number: 451114
Hardware Version: 5
Firmware Version: 3.03

Calibration Details:

Calibration Result: PASS
Calibration Date: 2016-03-23 16:30:58 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0 PSI to 5 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	5.0003	0.0002	PSI
Pressure	2.0000	1.9988	-0.0012	PSI
Pressure	-0.0001	-0.0007	-0.0006	PSI
Temperature	38.8610	38.8915	0.0305	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44038789
Manu Mensor Model CPC6000 SerialNo 41000617
Manu Instrulab Model 3312A-14-15-24 SerialNo 31154
Manu Instrulab Model 406X-0031-01 SerialNo 2-31125
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: JD

L4-12



Calibration Report

Report Number: 20170401191620-405875

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 405875

Calibration Details:

Calibration Result: PASS
Calibration Date: 2017-04-01 19:16:20 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0012	0.0234
Pressure	2.1000	2.1013	0.0256
Pressure	0.0002	0.0019	0.0333
Temperature	24.6780	24.7063	0.0283

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 30117
Manu Instrulab Model 832-151-01 SerialNo 12086
Manu Mensor Model CPC6000 SerialNo 410009W9

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: FM

L4-13

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **449862**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-03-15 16:58:17 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9994	-0.0006	PSI
Pressure	2.0000	1.9990	-0.0010	PSI
Pressure	0.0001	-0.0004	-0.0006	PSI
Temperature	39.7370	39.7465	0.0095	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44021907

Manu Mensor Model CPC6000 SerialNo 610450

Manu Instrulab Model 3312A-14-15-24 SerialNo 31138

Manu Instrulab Model 406X-0031-01 SerialNo 1-31154

Manu Mensor Model CPC6000 SerialNo 621436

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: JN

L5-10



Calibration Report

Report Number: 20170331065036-404664

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 404664

Calibration Details:

Calibration Result: PASS
Calibration Date: 2017-03-31 06:50:36 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0009	0.0171
Pressure	2.1000	2.1008	0.0160
Pressure	0.0001	0.0011	0.0202
Temperature	24.9000	24.9097	0.0097

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

L5-14

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **446778**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-02-23 11:25:14 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9998	-0.0003	PSI
Pressure	2.0000	1.9991	-0.0009	PSI
Pressure	-0.0010	-0.0015	-0.0005	PSI
Temperature	38.7510	38.7888	0.0378	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44000742
Manu Mensor Model CPC6000 SerialNo 41000617
Manu Instrulab Model 3312A-14-15-24 SerialNo 31098
Manu Instrulab Model 406X-0031-01 SerialNo 31128-1
Manu Mensor Model CPC6000 SerialNo 410008DR
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: NJH*L1-64 P020*



Calibration Report

Report Number: 20170331065036-405896

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 405896

Calibration Details:

Calibration Result: PASS
Calibration Date: 2017-03-31 06:50:36 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0009	0.0175
Pressure	2.1000	2.1015	0.0316
Pressure	0.0001	0.0012	0.0236
Temperature	24.9000	24.9087	0.0087

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

L2-16



Calibration Report

Report Number: 20160801-470756

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **470756**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-08-01 21:16:17 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	5.0005	0.0005	PSI
Pressure	2.0000	2.0001	0.0001	PSI
Pressure	-0.0006	-0.0005	0.0000	PSI
Temperature	39.4840	39.5005	0.0165	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015886
Manu Instrulab Model 3312A-14-15-24 SerialNo 31125
Manu Instrulab Model 406X-0031-01 SerialNo 3-31139
Manu MENSOR Model 600 SerialNo 620252
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: **KK**

12-23



Calibration Report

Report Number: 20160310-422958

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **422958**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-03-10 22:34:48 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	5.0003	0.0002	PSI
Pressure	2.0000	1.9994	-0.0006	PSI
Pressure	-0.0001	-0.0010	-0.0009	PSI
Temperature	38.7610	38.7863	0.0253	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015965
Manu Instrulab Model 3312A-14-15-24 SerialNo 31103-(41012)
Manu Instrulab Model 406X-0031-01 SerialNo 31098-3
Manu MENSOR Model 600 SerialNo 620700
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: **SR**

LZ-9

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **410732**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2017-03-31 06:50:36 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0.0 PSI to 5.0 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0006	0.0132
Pressure	2.1001	2.1006	0.0101
Pressure	0.0002	0.0010	0.0164
Temperature	24.9000	24.9117	0.0117

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **449089**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-03-09 23:38:50 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0 PSI to 5 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	5.0005	0.0005	PSI
Pressure	2.0000	1.9998	-0.0002	PSI
Pressure	-0.0006	-0.0002	0.0003	PSI
Temperature	38.8650	38.9066	0.0416	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44038789

Manu Mensor Model CPC6000 SerialNo 41000617

Manu Instrulab Model 3312A-14-15-24 SerialNo 31154

Manu Instrulab Model 406X-0031-01 SerialNo 2-31125

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: SR*P2-2*



Calibration Report

Report Number: 20170328201735-396425

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 396425

Calibration Details:

Calibration Result: PASS
Calibration Date: 2017-03-28 20:17:35 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0007	0.0134
Pressure	2.1000	2.1011	0.0216
Pressure	0.0001	0.0015	0.0264
Temperature	24.8990	24.8860	-0.0130

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: FM



Calibration Report

Report Number: 20160909-476123

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **476123**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-09-09 16:42:05 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	5.0009	0.0008	PSI
Pressure	2.0000	1.9999	-0.0001	PSI
Pressure	-0.0001	-0.0004	-0.0002	PSI
Temperature	38.8490	38.8443	-0.0047	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44038789

Manu Mensor Model CPC6000 SerialNo 610913

Manu Instrulab Model 3312A-14-15-24 SerialNo 31154

Manu Instrulab Model 406X-0031-01 SerialNo 19528-1

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: **RS**

72-4



Calibration Report

Report Number: 20161025-482763

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **482763**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-10-25 22:41:44 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	5.0008	0.0007	PSI
Pressure	2.0000	2.0002	0.0002	PSI
Pressure	0.0002	0.0001	-0.0001	PSI
Temperature	38.7880	38.7853	-0.0027	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015965
Manu Mensor Model APC600 SerialNo 613167
Manu Instrulab Model 3312A-14-15-24 SerialNo 31099
Manu Instrulab Model 406X-0031-01 SerialNo 1-31138
Manu Mensor Model APC600 SerialNo 622745
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: **KK**

PZ-5



Calibration Report

Report Number: 2015123018814-118809

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 118809

Calibration Details:

Calibration Result: PASS
Calibration Date: 2015-12-30 18:8:14 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0006	4.9983	-0.0450
Pressure	2.0986	2.0965	-0.0430
Pressure	-0.0001	-0.0025	-0.0469
Temperature	24.9270	24.9393	0.0123

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WBJ

BN



Calibration Report

Report Number: 20170331065036-404593

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 404593

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2017-03-31 06:50:36 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0002	5.0010	0.0150
Pressure	2.0999	2.1006	0.0148
Pressure	0.0001	0.0011	0.0211
Temperature	24.9000	24.9126	0.0126

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

BURR WERT



Calibration Report

Report Number: 20161020-482118

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **482118**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-10-20 03:32:10 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9998	-0.0002	PSI
Pressure	2.0000	2.0002	0.0002	PSI
Pressure	0.0001	0.0003	0.0002	PSI
Temperature	39.6900	39.6794	-0.0106	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015886
Manu Mensor Model CPC6000 SerialNo 410004H2
Manu Instrulab Model 3312A-14-15-24 SerialNo 31138
Manu Instrulab Model 406X-0031-01 SerialNo 1-31125
Manu Mensor Model CPC6000 SerialNo 835877
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 622004

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: **KK**

CHAXA



Calibration Report

Report Number: 20160325-450882

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **450882**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-03-25 01:13:27 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9995	-0.0005	PSI
Pressure	2.0000	1.9994	-0.0006	PSI
Pressure	0.0001	-0.0002	-0.0003	PSI
Temperature	39.7240	39.7419	0.0179	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44021907
Manu Mensor Model CPC6000 SerialNo 610450
Manu Instrulab Model 3312A-14-15-24 SerialNo 31138
Manu Instrulab Model 406X-0031-01 SerialNo 1-31154
Manu Mensor Model CPC6000 SerialNo 621436
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: **SR**

CF-4



Calibration Report

Report Number: 20170331065036-409352

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 409352

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2017-03-31 06:50:36 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	4.9999	5.0008	0.0175
Pressure	2.0999	2.1002	0.0063
Pressure	0.0001	0.0005	0.0090
Temperature	24.9000	24.9146	0.0146

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

L7-52

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **118801**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-06-07 21:57:38 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0019	5.0009	-0.0196
Pressure	2.1014	2.1002	-0.0220
Pressure	-0.0002	-0.0016	-0.0282
Temperature	24.9210	24.9316	0.0106

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44002373
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: WR*PTC SW 6/16 A 12/16*



Calibration Report

Report Number: 20160805184918-350212

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 350212

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-08-05 18:49:18 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	4.9977	-0.0473
Pressure	2.1000	2.0976	-0.0469
Pressure	0.0001	-0.0025	-0.0518
Temperature	24.6750	24.6454	-0.0296

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 30117
Manu Instrulab Model 832-151-01 SerialNo 12086
Manu Mensor Model CPC6000 SerialNo 410009W9
Manu Mensor Model CPC6000 SerialNo 410007P4

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: FM



Calibration Report

Report Number: 20151226175527-120832
221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 120832

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2015-12-26 17:55:27 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	4.9990	4.9975	-0.0307
Pressure	2.1000	2.0978	-0.0440
Pressure	0.0001	-0.0020	-0.0414
Temperature	24.9270	24.9371	0.0101

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
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- A calibration interval of 12 to 18 months is recommended.

Performed By: WBJ

Report generated: 2015-12-28 16:01:40 UTC

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WBJ



Calibration Report

Report Number: 20170401191620-396410

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 396410

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2017-04-01 19:16:20 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	4.9991	-0.0175
Pressure	2.1000	2.0989	-0.0217
Pressure	0.0002	-0.0007	-0.0181
Temperature	24.6770	24.6988	0.0218

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 30117
Manu Instrulab Model 832-151-01 SerialNo 12086
Manu Mensor Model CPC6000 SerialNo 410009W9

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: FM

L13-1



Calibration Report

Report Number: 20170331065036-389513

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 389513

Calibration Details:

Calibration Result: PASS
Calibration Date: 2017-03-31 06:50:36 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0008	0.0158
Pressure	2.0999	2.1011	0.0243
Pressure	0.0002	0.0012	0.0208
Temperature	24.9000	24.9089	0.0089

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34980A SerialNo MY44001931

Manu Instrulab Model 4312A-15 SerialNo 41014

Manu Instrulab Model 832-151-01 SerialNo 12083

Manu Mensor Model CPC6000 SerialNo 410008J4

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 622004

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
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- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

Report generated: 2017-04-02 14:06:42 UTC

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Page 1 of 1

L13-2



Calibration Report

Report Number: 2017040318433-396408

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 396408

Calibration Details:

Calibration Result: PASS
Calibration Date: 2017-04-03 18:4:33 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	5.0003	0.0066
Pressure	2.1000	2.0998	-0.0032
Pressure	0.0001	-0.0002	-0.0042
Temperature	24.9020	24.9393	0.0373

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12083
Manu Mensor Model CPC6000 SerialNo 410008J4

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: FM

L13-3



Calibration Report

Report Number: 2016060703426-119249

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 119249

Calibration Details:

Calibration Result: PASS
Calibration Date: 2016-06-07 03:42:6 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0027	5.0016	-0.0226
Pressure	2.1015	2.1001	-0.0267
Pressure	0.0000	-0.0015	-0.0294
Temperature	24.9220	24.9195	-0.0025

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44002373
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR

L13-4

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **325889**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-06-07 03:42:6 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0020	5.0003	-0.0356
Pressure	2.0994	2.0980	-0.0262
Pressure	0.0000	-0.0014	-0.0278
Temperature	24.9230	24.9276	0.0046

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44002373
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: WR

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **450941**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-03-23 10:36:43 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	5.0003	0.0003	PSI
Pressure	2.0000	1.9998	-0.0002	PSI
Pressure	-0.0001	-0.0002	-0.0001	PSI
Temperature	38.8590	38.8937	0.0347	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44038789

Manu Mensor Model CPC6000 SerialNo 41000617

Manu Instrulab Model 3312A-14-15-24 SerialNo 31154

Manu Instrulab Model 406X-0031-01 SerialNo 2-31125

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: NJH

L3-5

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **152996**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-06-07 21:57:38 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0035	5.0029	-0.0127
Pressure	2.1024	2.1014	-0.0194
Pressure	-0.0002	-0.0016	-0.0273
Temperature	24.9230	24.9361	0.0131

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44002373
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: WR

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **471042**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-08-04 05:50:37 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	5.0005	0.0005	PSI
Pressure	2.0000	2.0007	0.0007	PSI
Pressure	-0.0001	0.0005	0.0006	PSI
Temperature	38.7940	38.8160	0.0220	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015965
Manu Mensor Model APC600 SerialNo 613167
Manu Instrulab Model 3312A-14-15-24 SerialNo 31099
Manu Instrulab Model 406X-0031-01 SerialNo 1-31138
Manu Mensor Model APC600 SerialNo 410008DR
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: KK

L3-7

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **450928**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-03-22 16:42:10 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	4.9998	-0.0002	PSI
Pressure	2.0000	1.9996	-0.0004	PSI
Pressure	0.0000	-0.0004	-0.0003	PSI
Temperature	38.8620	38.8866	0.0246	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.

Manu Agilent Model 34970A SerialNo MY44038789

Manu Mensor Model CPC6000 SerialNo 41000617

Manu Instrulab Model 3312A-14-15-24 SerialNo 31154

Manu Instrulab Model 406X-0031-01 SerialNo 2-31125

Manu Agilent Model 53131A-010 SerialNo MY47002282

Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: NJH

L4-7

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **118035**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-06-07 03:42:6 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0041	5.0024	-0.0329
Pressure	2.1026	2.1010	-0.0326
Pressure	0.0000	-0.0015	-0.0292
Temperature	24.9230	24.9075	-0.0155

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44002373
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WR



Calibration Report

Report Number: 20160521-460543

221 East Lincoln Avenue, Fort Collins, CO 80524 USA
1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598
Visit us at www.in-situ.com

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **460543**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-05-21 13:37:48 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0000	5.0005	0.0005	PSI
Pressure	2.0000	2.0003	0.0003	PSI
Pressure	0.0000	0.0001	0.0001	PSI
Temperature	38.7950	38.8227	0.0277	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44002390
Manu Mensor Model APC600 SerialNo 613167
Manu Instrulab Model 3312A-14-15-24 SerialNo 31099
Manu Instrulab Model 406X-0031-01 SerialNo 1-31127
Manu Mensor Model APC600 SerialNo 410008DR
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended

Performed By: **EC**

14-9

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI / 3.5 m / 11.5 ft / vented**
Serial Number: **460569**
Hardware Version: **5**
Firmware Version: **3.03**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2016-05-22 12:16:26 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **0 PSI to 5 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	5.0001	4.9995	-0.0005	PSI
Pressure	2.0000	1.9997	-0.0003	PSI
Pressure	-0.0001	-0.0001	-0.0001	PSI
Temperature	38.7680	38.8028	0.0348	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34970A SerialNo MY44015965
Manu Instrulab Model 3312A-14-15-24 SerialNo 31103-(41012)
Manu Instrulab Model 406X-0031-01 SerialNo 31098-3
Manu MENSOR Model 600 SerialNo 620700
Manu Agilent Model 53131A-010 SerialNo MY47002282
Manu MENSOR Model 600 SerialNo 620225

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: SR

LS-6

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **317451**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2015-12-26 17:55:27 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	4.9990	4.9989	-0.0020
Pressure	2.0999	2.0994	-0.0109
Pressure	0.0001	-0.0006	-0.0138
Temperature	24.9270	24.9382	0.0112

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: WBJ

LS-3



Calibration Report

Report Number: 20151226175527-119254

221 East Lincoln Avenue, Fort Collins, CO 80524 USA

1-970-498-1500, 1-800-446-7488, FAX: 1-970-498-1598

Visit us at www.in-situ.com

Instrument Details:

Instrument Model: Level TROLL 500
Full Scale Pressure Range: 5 PSI vented
Serial Number: 119254

Calibration Details:

Calibration Result: PASS
Calibration Date: 2015-12-26 17:55:27 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0000	4.9988	-0.0247
Pressure	2.1027	2.1009	-0.0378
Pressure	0.0001	-0.0019	-0.0393
Temperature	24.9270	24.9373	0.0103

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: WBJ

Report generated: 2015-12-28 11:34:50 UTC

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Page 1 of 1

LSA

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **118800**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-01-04 02:27:7 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	4.9994	4.9974	-0.0386
Pressure	2.1016	2.0994	-0.0433
Pressure	0.0000	-0.0024	-0.0480
Temperature	24.9290	24.9151	-0.0139

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 41014
Manu Instrulab Model 832-151-01 SerialNo 12157
Manu Ruska Model 7215xi SerialNo 53143

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.

Performed By: FM

Instrument Details:

Instrument Model: **Level TROLL 500**
Full Scale Pressure Range: **5 PSI vented**
Serial Number: **117441**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: 2016-08-05 18:49:18 (UTC)
Nominal Range of Applied Temperature: -5 C to +50 C
Temperature Accuracy Specification: +/- 0.1 C From -5 C to +50 C
Nominal Range of Applied Pressure: 0.0 PSI to 5.0 PSI
Pressure Accuracy Specification: +/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C

Post-Calibration Check:

Parameter	Applied	Reported	Deviation
Pressure	5.0001	4.9992	-0.0174
Pressure	2.1000	2.0985	-0.0301
Pressure	0.0001	-0.0016	-0.0340
Temperature	24.6740	24.6799	0.0059

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44014053
Manu Instrulab Model 4312A-15 SerialNo 30117
Manu Instrulab Model 832-151-01 SerialNo 12086
Manu Mensor Model CPC6000 SerialNo 410009W9
Manu Mensor Model CPC6000 SerialNo 410007P4

Notes:

1. Standards used in this calibration are traceable to the National Institute of Standards and Technology.
2. This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
3. A calibration interval of 12 to 18 months is recommended.

Performed By: FM

LS-93

Solinst Canada Ltd.

35 Todd Road
Georgetown, ON
Canada, L7G 4R8

Tel: (905) 873-2255; (800) 661-2023
Fax: (905) 873-1992; (800) 516-9081

Email: Instruments@solinst.com
Web Site: www.solinst.com

August 24, 2017

CERTIFICATE OF QUALITY AND CONFORMITY

We hereby certify that the following instrumentation as manufactured by Solinst Canada Ltd. on Sales Order S000204916 are built to good quality and conform to the individual product standards set out by Solinst Canada Ltd.

In addition, we hereby certify that Solinst Canada Ltd. has the manufacturing tools, experience and capacity to provide the equipment specified, to our quality standards, in a timely manner.

Qty	Item	Description	Serial List
3	101679	101 Water Level Meter, P2/M3/150m	253032, 269296, 269299
2	100572	101 Water Level Meter, P2/M3/250m	269295, 269329
20	105940	101 P2 SS Probe on 3m tape section for Water Level Meter	270372, 270380, 271751, 271754, 271755, 271757, 271774, 271780, 271894, 271906, 271909, 271911, 271914, 271916, 271917, 271923, 271932, 271935, 271936, 271938
10	110277	101 107 122 Tape Splice Assy (Crimp Style-150 psi) for the Water Level Meter	

Issued by Manufacturer
SOLINST CANADA LTD.



Chris Batt
Sales Manager

Solinst Canada Ltd.

35 Todd Road
Georgetown, ON
Canada, L7G 4R8

Tel: (905) 873-2255; (800) 661-2023
Fax: (905) 873-1992; (800) 516-9081

Email: Instruments@solinst.com
Web Site: www.solinst.com

August 24, 2017

CERTIFICATE OF QUALITY AND CONFORMITY

We hereby certify that the following instrumentation as manufactured by Solinst Canada Ltd. on Sales Order S000204947 are built to good quality and conform to the individual product standards set out by Solinst Canada Ltd.

In addition, we hereby certify that Solinst Canada Ltd. has the manufacturing tools, experience and capacity to provide the equipment specified, to our quality standards, in a timely manner.

Qty	Item	Description	Serial List
6	103563	Handle Assembly c/w washer & screw for Water Level Meter/IFM	

Issued by Manufacturer
SOLINST CANADA LTD.



Chris Batt
Sales Manager

Solinst Canada Ltd.

35 Todd Road
Georgetown, ON
Canada, L7G 4R8

Tel: (905) 873-2255; (800)661-2023
Fax: (905) 873-1992; (800) 516-9081

Email: Instruments@solinst.com
Web Site: www.solinst.com

August 24, 2017

CERTIFICATE OF QUALITY AND CONFORMITY

We hereby certify that the following instrumentation as manufactured by Solinst Canada Ltd. on Sales Order S000208993 are built to good quality and conform to the individual product standards set out by Solinst Canada Ltd.

In addition, we hereby certify that Solinst Canada Ltd. has the manufacturing tools, experience and capacity to provide the equipment specified, to our quality standards, in a timely manner.

Qty	Item	Description	Serial List
1	110190	101 Water Level Meter, P7/LM3/30m	268892
1	112285	102 Water Level Meter, P10/N3/250m (laser marked)	285502
1	112269	102M Mini Water Level Meter, P10/N3/25m (laser marked)	288629
1	110942	122M (CSA) Mini Interface Meter, P8/LN3/25m (Laser Marked - Case Extra)	268096
1	100290	101 Water Level Meter, P2/M3/100m	279943
1	101677	101 Water Level Meter, P2/M3/60m	279981

Issued by Manufacturer
SOLINST CANADA LTD.



Chris Batt
Sales Manager



Gerencia Hidrogeología Salar
Monitoreo Recursos Hídricos y Medio Ambiente

Registro de control y calibración equipos de terreno

Fecha	Equipo	Codigo					Monitor	Firma
24.07.17 18:45	pHmetro	PH/COND 3320 SENTIX		Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°	Gonzalo Tupaj	
			Lectura	4.07	6.98	22°C		
			Ajuste	4.01	7.00	22°C		
			Verificación	4.01	7.02	22°C		
24.07.17 18:55	Conductivimetro	PH/COND 3320 TetraCON 325		estándar 0,01 mol/l KCl		T°	Gonzalo Tupaj	
			Lectura	1399		22.5°C		
			Ajuste	1459		22.5°C		
			Verificación	1457		22.5°C		
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					
	pHmetro			Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°		
			Lectura					
			Ajuste					
			Verificación					
	Conductivimetro			estándar 0,01 mol/l KCl		T°		
			Lectura					
			Ajuste					
			Verificación					
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					
	pHmetro			Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°		
			Lectura					
			Ajuste					
			Verificación					
	Conductivimetro			estándar 0,01 mol/l KCl		T°		
			Lectura					
			Ajuste					
			Verificación					
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					



Gerencia Hidrogeología Salar
Monitoreo Recursos Hídricos y Medio Ambiente

Registro de control y calibración equipos de terreno

Fecha	Equipo	Codigo					Monitor	Firma
26.10.16	pHmetro	PH COND 3320 SENTIX 15080180		Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°	Gonzalo Puga	
			Lectura	4.06	7.07	24°		
			Ajuste	4.01	7.02	24°		
			Verificación	4.01	7.01	24.3°		
26.10.16	Conductivimetro	PH COND 3320 TETRACON 325 15020180		estándar 0,01 mol/l KCl		T°	Gonzalo Puga	
			Lectura	1376		23.8°		
			Ajuste	1415		24.8°		
			Verificación					
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					
19.01.17 14:39	pHmetro	PH-COND. 3320 SENTIX n°1 15080180.		Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°	Petrusio Gonzalez	
			Lectura	4.01	7.02	24,3		
			Ajuste	4,00	6,999	24,3		
			Verificación					
19.01.17 14:36	Conductivimetro	PH-COND. 3320 TETRACON 325 15020180		estándar 0,01 mol/l KCl		T°	Petrusio Gonzalez	
			Lectura	1367		24,2		
			Ajuste	1417.		24,2		
			Verificación					
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					
25.04.17 17:07	pHmetro	PH COND 3320 SENTIX 15080180		Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°		
			Lectura	4.03	6.948	25°C		
			Ajuste	4.01	7.01	25°C		
			Verificación	3.99	7.016	25°C		
25.04.17 17:10	Conductivimetro	PH COND 3320 TETRACON 325 15080180		estándar 0,01 mol/l KCl		T°		
			Lectura	1414		22°C		
			Ajuste	1432		22°C		
			Verificación	1437		22°C		
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					



Gerencia Hidrogeología Salar
Monitoreo Recursos Hídricos y Medio Ambiente

Registro de control y calibración equipos de terreno

Fecha	Equipo	Codigo					Monitor	Firma
23.01.16	pHmetro	WTW PH/COND 3320 15080180		Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°	Gonzalo Taya	
			Lectura	4.12	7.12	25°C		
			Ajuste	4.00	7.00	25°C		
			Verificación	4.03	7.04	25°C		
23.01.16	Conductivimetro	WTW PH/COND 3320 15080180		estándar 0,01 mol/l KCl		T°	Gonzalo Taya	
			Lectura	1398	145/CM	25°C		
			Ajuste	1413	145/CM	25°C		
			Verificación	1422	145/CM	25°C		
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					
27.04.16	pHmetro	PH/COND PH 3320 15080180		Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°	Gonzalo Taya	
			Lectura	4.09	7.16	25°C		
			Ajuste	4.00	7.00	25°C		
			Verificación	4.01	7.08	25°C		
22.04.16	Conductivimetro	WTW PH/COND 3320 15080180		estándar 0,01 mol/l KCl		T°	Gonzalo Taya	
			Lectura	1346	146/CM	25°C		
			Ajuste	1413	146/CM	25°C		
			Verificación	1402	145/CM	25°C		
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					
15-7-16	pHmetro	PH/COND PH 3320 15080180		Buffer 4.00 ± 0.05	Buffer 7.00 ± 0.05	T°	Cristina Martinez	
			Lectura	4.08	7.14	25°C		
			Ajuste	4.00	7.00	25°C		
			Verificación	4.01	7.05	25°C		
15-7-16	Conductivimetro	WTW PH/COND 3320 15080180		estándar 0,01 mol/l KCl		T°	Cristina Martinez	
			Lectura	1356	145/CM	25°C		
			Ajuste	1413	145/CM	25°C		
			Verificación	1406	145/CM	25°C		
	Oxigeno disuelto			OxiCal®-SL		T°		
			Lectura					

A11A NA

Endress+Hauser 

People for Process Automation

Flow Calibration with Adjustment

30315269-3375058

53215550

Purchase order number

CL-3005225150-60 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F-EL1A1APOBAAA

Order code

PROMAG 50 P 6"

Transmitter/Sensor

J809AC16000

Serial N°

-

Tag N°

FCP-7.1.B

Calibration rig

1400.492 us.gal/min ($\pm 100\%$)

Calibrated full scale

Service interface

Calibrated output

1.0260

Calibration factor

4

Zero point

78.5 °F

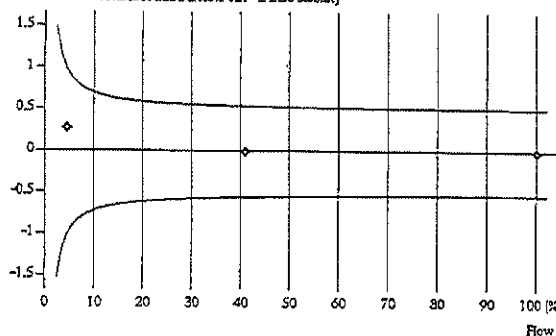
Water temperature

Flow [%]	Flow [us.gal/min]	Duration [s]	V target [us.gal]	V meas. [us.gal]	Δ o.r.* [%]	Outp.** [mA]
4.0	56.199	120.1	112.445	112.764	0.28	4.64
40.5	567.785	60.1	568.391	568.407	0.00	10.49
40.6	568.513	60.1	569.168	569.185	0.00	10.50
100.0	1400.33	60.1	1401.90	1401.94	0.00	20.00
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

*o.r.: of reading

**Calculated value (4 - 20 mA)

Measured error % o.r.

Tolerance limits $\pm 0.5\%$ o.r.* \pm Zero stability

For detailed data concerning output specifications of the unit under test, see Technical Information (TI), chapter Performance characteristics.

The calibration is traceable to the N.I.S.T. through standards certified at preset intervals.

Endress+Hauser Flowtec operates ISO/IEC 17025 accredited calibration facilities in Reinach (CH), Cernay (FR), Greenwood (USA), Aurangabad (IN) and Suzhou (CN).

David McCombs

08-28-2014

Date of calibration

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

David McCombs

Operator

Certified acc. to
ISO 9001, Reg.-N° 030502.2
ISO 14001, Reg.-N° EMS561046

Parameter Setting

30291-085-337/5058

53215550

Purchase order number

3005225150-60 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F-EL1A1APOBAAA

Order code

J809AC16000

Serial N°

PROMAG 50 P

Transmitter/Sensor

6"

Nominal diameter

-

Tag N°

The below parameters are set according to your order.

Please refer to the Operating Manual for any parameters not mentioned.

Communication type

Device software

Device revision

HART

V2.04.00

Dev.9/DD.1 [ID 41 (hex)]

Units

Unit volume flow

Unit volume

m³/hr

m³

User interface

Assign line 1

Assign line 2

Volume flow

Totalizer 1

Totalizer

Unit volume totalizer 1

Assign totalizer 1

Unit volume totalizer 2

Assign totalizer 2

m³

Volume flow

m³

Volume flow

Current output 1

Assign current output

Current span

Value 20 mA

Time constant

Failsafe mode

Volume flow

4-20 mA HART NAMUR

150 m³/hr

3 s

Minimum current

08-28-2014

Date

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

Parameter Setting

30291685-3375058

Pulse output 1

Assign pulse

Pulse value

Pulse width

Output signal

Failsafe mode

Volume flow

0.025 m³

100 ms

passive/positive

Fallback value

08-28-2014

Date

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

Flow Calibration with Adjustment

30295961-3233250

53214241

Purchase order number

CL-3005132881-60 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F EL1A1AP0BAAA

Order code

PROMAG 50 P 6"

Transmitter/Sensor

J204FC16000

Serial N°

-
Tag N°

FCP-7:1.B

Calibration rig

1400.492 us.gal/min ($\pm 100\%$)

Calibrated full scale

Service interface

Calibrated output

1.0380

Calibration factor

2

Zero point

69.8 °F

Water temperature

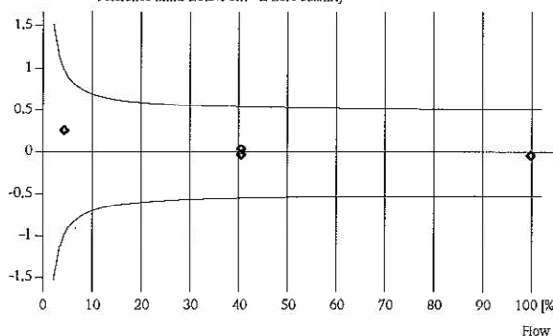
Flow [%]	Flow [us.gal/min]	Duration [s]	V target [us.gal]	V meas. [us.gal]	Δ o.r.* [%]	Outp.** [mA]
4.0	56.235	120.1	112.522	112.816	0.26	4.64
40.4	565.473	60.1	566.124	566.320	0.03	10.46
40.4	565.793	60.1	566.408	566.239	-0.03	10.46
99.8	1398.14	60.1	1399.63	1399.09	-0.04	19.97
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

*o.r. of rate

**Calculated value (4 - 20 mA)

Measured error % o.r.

Tolerance limit: $\pm 0.5\%$ o.r.* \pm Zero stability



For detailed data concerning output specifications of the unit under test, see Technical Information (TI), chapter Performance characteristics.

The calibration is traceable to the N.I.S.T. through standards certified at preset intervals.

Endress+Hauser Flowtec operates ISO/IEC 17025 accredited calibration facilities in Reinach (CH), Cernay (FR), Greenwood (USA), Aurangabad (IN) and Suzhou (CN).

David McCombs

02-18-2014

Date of calibration

Endress+Hauser Flowtec, Division USA

2330 Endress Place

Greenwood, IN 46143

David McCombs

Operator

Certified acc. to

ISO 9001, Reg.-N° 030502.2

ISO 14001, Reg.-N° EMS561046

Parameter Setting

30273046-3233250

Pulse output 1

Assign pulse

Pulse value

Pulse width

Output signal

Failsafe mode

Volume flow

0.025 m³

100 ms

passive/positive

Fallback value

02-18-2014

Date

Endress+Hauser Flowtec, Division USA

2330 Endress Place

Greenwood, IN 46143

Parameter Setting

30273046-3233250

53214241

Purchase order number

3005132881-60 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F-EL1A1APOBAAA

Order code

J204FC16000

Serial N°

PROMAG 50 P

Transmitter/Sensor

6"

Nominal diameter

Tag N°

The below parameters are set according to your order.

Please refer to the Operating Manual for any parameters not mentioned.

Communication type

Device software

Device revision

HART

V2.04.00

Dev.9/DD.1 [ID 41 (hex)]

Units

Unit volume flow

Unit volume

m³/hr

m³

User interface

Assign line 1

Assign line 2

Volume flow

Totalizer 1

Totalizer

Unit volume totalizer 1

Assign totalizer 1

Unit volume totalizer 2

Assign totalizer 2

m³

Volume flow

m³

Volume flow

Current output 1

Assign current output

Current span

Value 20 mA

Time constant

Failsafe mode

Volume flow

4-20 mA HART NAMUR

150 m³/hr

3 s

Minimum current

02-18-2014

Date

Endress+Hauser Flowtec, Division USA

2330 Endress Place

Greenwood, IN 46143

Flow Calibration with Adjustment

30315424-3376014

53215550

Purchase order number

CL-3005225150-60 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F-EL1A1APOBAAA

Order code

PROMAG 50 P 6"

Transmitter/Sensor

J80ADA16000

Serial N°

-

Tag N°

FCP-7.1.B

Calibration rig

1400,492 us.gal/min ($\pm 100\%$)

Calibrated full scale

Service interface

Calibrated output

1.0525

Calibration factor

3

Zero point

79.4 °F

Water temperature

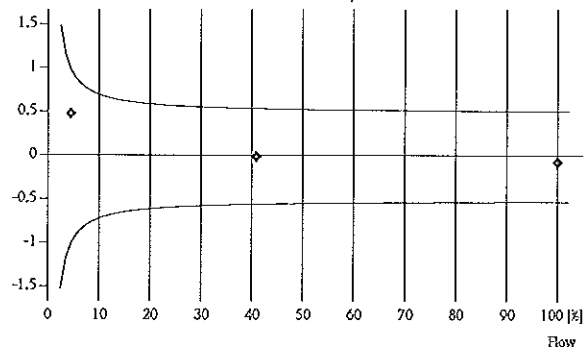
Flow [%]	Flow [us.gal/min]	Duration [s]	V target [us.gal]	V meas. [us.gal]	Δ o.r.* [%]	Outp.** [mA]
4.0	56.242	120.1	112.548	113.105	0.49	4.65
40.5	567.299	60.1	567.935	567.922	0.00	10.48
40.6	567.877	60.1	568.435	568.436	0.00	10.49
99.8	1397.81	60.1	1399.35	1398.45	-0.06	19.96
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

*o.r.: of reading

**Calculated value (4 - 20 mA)

Measured error % o.r.

Tolerance limits: $\pm 0.5\%$ o.r.* \pm Zero stability



For detailed data concerning output specifications of the unit under test, see Technical Information (TI), chapter Performance characteristics.

The calibration is traceable to the N.I.S.T. through standards certified at preset intervals.

Endress+Hauser Flowtec operates ISO/IEC 17025 accredited calibration facilities in Reinach (CH), Cernay (FR), Greenwood (USA), Aurangabad (IN) and Suzhou (CN).

David McCombs

08-29-2014

Date of calibration

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

David McCombs

Operator

Certified acc. to
ISO 9001, Reg.-N° 030502.2
ISO 14001, Reg.-N° EMS561046

Parameter Setting

30291831-3376014

53215550

Purchase order number

3005225150-60 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F-EL1A1APOBAAA

Order code

J80ADA16000

Serial N°

PROMAG 50 P

Transmitter/Sensor

6"

Nominal diameter

--

Tag N°

The below parameters are set according to your order.
Please refer to the Operating Manual for any parameters not mentioned.

Communication type

Device software

Device revision

HART

V2.04.00

Dev.9/DD.1 [ID 41 (hex)]

Units

Unit volume flow

Unit volume

m³/hr

m³

User interface

Assign line 1

Assign line 2

Volume flow

Totalizer 1

Totalizer

Unit volume totalizer 1

Assign totalizer 1

Unit volume totalizer 2

Assign totalizer 2

m³

Volume flow

m³

Volume flow

Current output 1

Assign current output

Current span

Value 20 mA

Time constant

Failsafe mode

Volume flow

4-20 mA HART NAMUR

150 m³/hr

3 s

Minimum current

08-29-2014

Date

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

Parameter Setting

30291831-3376014

Pulse output 1

Assign pulse

Pulse value

Pulse width

Output signal

Failsafe mode

Volume flow

0.025 m³

100 ms

passive/positive

Fallback value

08-29-2014

Date

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

Flow Calibration with Adjustment

30316903-3387109

53215550

Purchase order number

CL-3005225150-90 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P2H-EL1A1APOBAAA

Order code

PROMAG 50 P 8"

Transmitter/Sensor

J9043716000

Serial N°

-

Tag N°

FCP-7.1.B

Calibration rig

2489.769 us.gal/min ($\triangleq 100\%$)

Calibrated full scale

Service interface

Calibrated output

1.0492

Calibration factor

-6

Zero point

79.3 °F

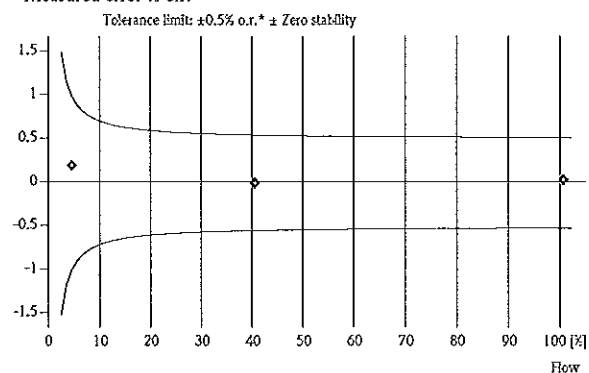
Water temperature

Flow [%]	Flow [us.gal/min]	Duration [s]	V target [us.gal]	V meas. [us.gal]	Δ o.r.* [%]	Outp.** [mA]
4.0	100.345	120.1	200.815	201.222	0.20	4.65
40.2	1001.14	60.1	1002.23	1002.19	0.00	10.43
40.2	1001.13	60.1	1002.26	1002.27	0.00	10.43
100.5	2501.78	60.1	2504.45	2505.41	0.04	20.08
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

*o.r.: of reading

**Calculated value (4 – 20 mA)

Measured error % o.r.



For detailed data concerning output specifications of the unit under test, see Technical Information (TI), chapter Performance characteristics.

The calibration is traceable to the N.I.S.T. through standards certified at preset intervals.

Endress+Hauser Flowtec operates ISO/IEC 17025 accredited calibration facilities in Reinach (CH), Cernay (FR), Greenwood (USA), Aurangabad (IN) and Suzhou (CN).

David B McCombs

09-15-2014

Date of calibration

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

David McCombs

Operator

Certified acc. to
ISO 9001, Reg.-N° 030502.2
ISO 14001, Reg.-N° EMS561046

Parameter Setting

30293326-3387109

53215550

Purchase order number

3005225150-90 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P2H-EL1A1APOBAAA

Order code

J9043716000

Serial N°

PROMAG 50 P

Transmitter/Sensor

8"

Nominal diameter

-

Tag N°

The below parameters are set according to your order.
Please refer to the Operating Manual for any parameters not mentioned.

Communication type

HART

Device software

V2.04.00

Device revision

Dev.9/DD.1 [ID 41 (hex)]

Units

Unit volume flow

m³/hr

Unit volume

m³

User interface

Assign line 1

Volume flow

Assign line 2

Totalizer 1

Totalizer

Unit volume totalizer 1

m³

Assign totalizer 1

Volume flow

Unit volume totalizer 2

m³

Assign totalizer 2

Volume flow

Current output 1

Assign current output

Volume flow

Current span

4-20 mA HART NAMUR

Value 20 mA

300 m³/hr

Time constant

3 s

Failsafe mode

Minimum current

09-15-2014

Date

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

Parameter Setting

30293326-3387109

Pulse output 1

Assign pulse

Pulse value

Pulse width

Output signal

Failsafe mode

Volume flow

0.05 m³

100 ms

passive/positive

Fallback value

09-15-2014

Date

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

Flow Calibration with Adjustment

30276447-3080345

53212780

Purchase order number

CL-3005030736-20 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F-EL1A1AS4BAAA

Order code

PROMAG 50 P 6"

Transmitter/Sensor

H7033B16000

Serial N°

--

Tag N°

FCP-7.1.B

Calibration rig

1400.492 us.gal/min (\triangleq 100%)

Calibrated full scale

Service interface

Calibrated output

1.0081

Calibration factor

-2

Zero point

76.1 °F

Water temperature

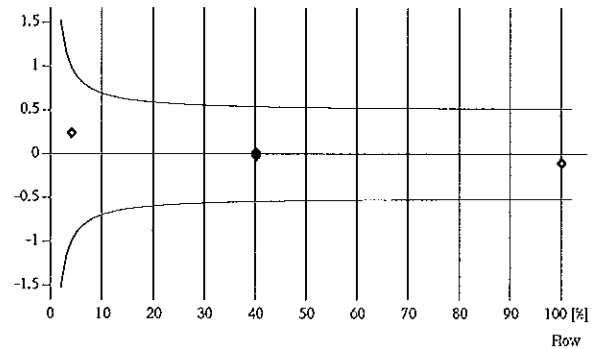
Flow [%]	Flow [us.gal/min]	Duration [s]	V target [us.gal]	V meas. [us.gal]	Δ o.r.* [%]	Outp.** [mA]
4.0	56.3	120.1	112.670	112.944	0.24	4.64
40.2	563.3	60.1	563.923	564.029	0.02	10.44
40.2	563.4	60.1	564.097	563.987	-0.02	10.44
100.2	1402.9	60.1	1404.49	1403.01	-0.11	20.01
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

*o.r.: of rate

**Calculated value (4 - 20 mA)

Measured error % o.r.

Tolerance limit: $\pm 0.5\%$ o.r.* \pm Zero stability



For detailed data concerning output specifications of the unit under test, see Technical Information (TI), chapter Performance characteristics.

The calibration is traceable to the N.I.S.T. through standards certified at preset intervals.

Endress+Hauser Flowtec operates ISO/IEC 17025 accredited calibration facilities in Reinach (CH), Cernay (FR), Greenwood (USA), Aurangabad (IN) and Suzhou (CN).

David McCombs

07-17-2013

Date of calibration

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

David McCombs

Operator

Certified acc. to
ISO 9001, Reg.-N° 030502.2
ISO 14001, Reg.-N° EMS561046

Parameter Setting

30254007-3080345

53212780

Purchase order number

3005030736-20 / Endress+Hauser Flowtec

Order N°/Manufacturer

50P1F-EL1A1AS4BAAA

Order code

H7033B16000

Serial N°

PROMAG 50 P

Transmitter/Sensor

6"

Nominal diameter

-

Tag N°

The below parameters are set according to your order.
Please refer to the Operating Manual for any parameters not mentioned.

Communication type

Device software

Device revision

HART

V2.04.00

Dev.9/DD.1 [ID 41 (hex)]

Units

Unit volume flow

Unit volume

m³/hr

m³

User interface

Assign line 1

Assign line 2

Volume flow

Totalizer 1

Totalizer

Unit volume totalizer 1

Assign totalizer 1

Unit volume totalizer 2

Assign totalizer 2

m³

Volume flow

m³

Volume flow

Current output 1

Assign current output

Current span

Value 20 mA

Time constant

Failsafe mode

Volume flow

4-20 mA HART NAMUR

150 m³/hr

3 s

Minimum current

07-16-2013

Date

Endress+Hauser Flowtec, Division USA

2330 Endress Place

Greenwood, IN 46143

Parameter Setting

30254007-3080345

Pulse output 1

Assign pulse

Pulse value

Pulse width

Output signal

Failsafe mode

Volume flow

0.025 m³

100 ms

passive/positive

Fallback value

07-16-2013

Date

Endress+Hauser Flowtec, Division USA
2330 Endress Place
Greenwood, IN 46143

TEST CERTIFICATE

MULLAY

製品名称 電磁流量計一体形検出器 (AXF)
PRODUCT NAME MAGNETIC FLOWMETER INTEGRAL TYPE

タグNo.
TAG No. =====

形名
MODEL AXF150G-E1AH1S-CA11-21B/X2

手配 No.
ORDER No. 2002783615-000010-0009

計器番号
SERIAL No. S5RA02062

公称径
SIZE 150 mm

実流設定スパン
FLOWTEST 0 - 2.000 m/s

実流量検査 許容差 ±0.35% OF RATE (0.15 ≤ V ≤ 10)
ACTUAL FLOW TEST ACCURACY ±0.5mm/s (V < 0.15)

設定値 Q(%) [V(m/s)] SET FLOW RATE	出力 OUTPUT		誤差 (% OF RATE) ERROR	液体温度 (°C) FLUID TEMP
	基準値 (m3/h) DESIRED	実測値 (m3/h) ACTUAL		
0.0 [0.00]	0.00	0.00	0.00	18.7
22.3 [0.45]	28.39	28.40	+0.04	18.7
47.8 [0.96]	60.79	60.80	+0.02	18.7
96.4 [1.93]	122.69	122.55	-0.11	18.7
=====	=====	=====	=====	=====
メータファクタ METER FACTOR	L 0.9325	H 0.8906		

実流量検査(拡張二周波励磁) 許容差
ACTUAL FLOW TEST(ENHANCED DUAL FREQUENCY) ACCURACY

設定値 Q(%) [V(m/s)] SET FLOW RATE	出力 OUTPUT		誤差 () ERROR	液体温度 (°C) FLUID TEMP
	基準値 () DESIRED	実測値 () ACTUAL		
=====	=====	=====	=====	=====
=====	=====	=====	=====	=====
=====	=====	=====	=====	=====
=====	=====	=====	=====	=====
=====	=====	=====	=====	=====
メータファクタ(EDF) METER FACTOR(EDF)	L =====	H =====		

項目 ITEM	結果 RESULT	項目 ITEM	結果 RESULT
プロセス接続 PROCESS CONNECTION	ANSI Class 150 フランジ形 ANSI Class 150 Flange Type	電流出力検査 CURRENT OUTPUT	良, GOOD
配線接続口 ELECTRIC CONNECTION	ANSI 1/2NPT めねじ ANSI 1/2NPT Female Screw	パルス出力検査 PULSE OUTPUT	良, GOOD
耐電圧 DIELECTRIC STRENGTH	(1)電源端子-接地端子 POWER TERM. to GND TERM. (2)電源端子-入出力端子 POWER TERM. to IN/OUT TERM. 1400VAC, 2sec	アラーム/ステータス出力動作 ALARM/STATUS OUTPUT	良, GOOD
絶縁抵抗 INSULATION RESISTANCE	(1)電源端子-接地端子 POWER TERM. to GND TERM. (2)電源端子-入出力端子 POWER TERM. to IN/OUT TERM. 100MΩ, 500VDC	ステータス入力動作 STATUS INPUT	良, GOOD
	(3)接地端子-入出力端子 GND TERM. to IN/OUT TERM. (4)入出力端子-入出力端子 IN/OUT TERM. to IN/OUT TERM. 20MΩ, 100VDC	通信機能 COMMUNICATION CHECK	良, GOOD
		表示器検査 DISPLAY CHECK	良, GOOD
		漏洩試験 LEAK TEST	良, GOOD
		外観 APPEARANCE	良, GOOD

NOTES

日付
DATE 2015-09-29

室内温度, 湿度
AMBIENT TEMP. & HUM. 21°C

79%

検査者
INSPECTOR SHI XIAODONG

承認者
APPROVED BY SHENG QI

QIC 01E20D01-02
Ed7: Aug. 2013

YOKOGAWA



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GUIA DE DESPACHO

N° 1920811

1920811

S.I.I. - SANTIAGO ORIENTE

FECHA VIGENCIA EMISION HASTA 30 JUNIO 2017

FECHA:

29/01/2017

SUCURSALES

• Anibal Pinto 3228 / Antofagasta • Ruta 5 Norte Km. 1760 / Pozo Almonte • Campamento Minsal Planta s/n Toconao San Pedro de Atacama / Antofagasta • Dos Sur Sector Agrícola Sillio 5 La Chimba / Antofagasta • El Trovador 4285 / Las Condes • Edificio Administración s/n María Elena / María Elena • Edificio Administración s/n Pedro de Valdivia / María Elena • Arturo Prat 1060 / Tocopilla • Caleta Paposo s/n / TalTal • Ruta 5 Norte Km. 1357 / Antofagasta • Anibal Pinto 265 / San Antonio • Lascar s/n Toconao, San Pedro de Atacama / Antofagasta • Pampa Yumbes Hacienda Paposo s/n / TalTal • Ex Oficina Florencia s/n Sierra Gorda / Antofagasta • Planta Sulfato de Potasio s/n San Pedro de Atacama / SP Atacama • Planta CL Potasio s/n San Pedro de Atacama / SP Atacama

GIRO COMERCIAL

Fabricación de Abonos y Compuestos de Nitrógeno. Fabricación de Maquinarias para Minas, Canteras y Obras de Construcción. Sociedad de Inversión y Rentistas de Capitales Mobiliarios en General. Actividades de Asesoramiento Empresarial y en Materia de Gestión. Venta al por Mayor de Maquinaria para la Minería. Venta al por Mayor de Combustibles Sólidos. Venta al por Mayor de Combustibles Líquidos. Fabricación de Otros Productos no Metálicos N.C.P. Transmisión de Energía Eléctrica. Distribución de Energía Eléctrica. Captación, Depuración y Distribución de Agua, Exportaciones.

SEÑORES:

● GIRO: SQM SALAR S. A.
● DIRECCION: EXPLOTACION DE OTRAS MINAS Y CANTERAS
● FONO: LOS MILITARES 4290
● FAX: 4252000
● N° ORDEN DE COMPRA:

RUT:

● CIUDAD: 7903800-K
● COMUNA: LAS CONDES
● CASILLA: SANTIAGO
● CONDICION DE VENTA:
● N° DE PATENTE:

5000110585/0010089040

CENTRO ALM	MATERIAL DESCRIPCION	CANTIDAD	UM	DIVISA	PRECIO UNITARIO
0405 4027 5002153	FLUJOMETRO,AXF150G-E1AH1N-CA11-21B/	1	C/U	CLP	881.383

MERO DE ENTREGA :8010099840

NOMBRE: Jonas Pardo Lina RUT: 9918318-4

FIRMA: [Firma] FECHA: 29.01.17

LUGAR RECEPCION: 30117

"El acuse de recibo que se declara en este acto, de acuerdo a lo dispuesto en la letra b) del Art. 4°, y la letra c) del Art. 5° de la Ley 19.983, acredita que la entrega de mercaderías o servicio(s) prestado(s) ha(n) sido recibido(s)".

ORIGINAL: CLIENTE



成績表 TEST CERTIFICATE

製品名称 電磁流量計一体形検出器 (AXF)
PRODUCT NAME MAGNETIC FLOWMETER INTEGRAL TYPE
形名
MODEL AXF150G-E1AH1S-CA11-21B/X2
手配 No.
ORDER No. 2002783615-000010-0005
公称径
SIZE 150 mm
実流設定スパン
FLOWTEST 0 - 2.000 m/s

タグNo.
TAG No. =====

計器番号
SERIAL No. S5RA02058

実流量検査 許容差 $\pm 0.35\%$ OF RATE ($0.15 \leq V \leq 10$)
ACTUAL FLOW TEST ACCURACY $\pm 0.5\text{mm/s}$ ($V < 0.15$)

設定値 Q(%) [V(m/s)] SET FLOW RATE	出力 OUTPUT		誤差 (% OF RATE) ERROR	液体温度 (°C) FLUID TEMP
	基準値 (m3/h) DESIRED	実測値 (m3/h) ACTUAL		
0.0 [0.00]	0.00	0.00	0.00	23.4
23.5 [0.47]	29.84	29.90	+0.20	23.3
48.3 [0.97]	61.47	61.51	+0.07	23.4
99.2 [1.98]	126.20	126.08	-0.10	23.4
メータファクタ METER FACTOR	L 0.9364	H 0.8947		

実流量検査(拡張二周波励磁) 許容差
ACTUAL FLOW TEST(ENHANCED DUAL FREQUENCY) ACCURACY

設定値 Q(%) [V(m/s)] SET FLOW RATE	出力 OUTPUT		誤差 () ERROR	液体温度 (°C) FLUID TEMP
	基準値 () DESIRED	実測値 () ACTUAL		
=====	=====	=====	=====	=====
=====	=====	=====	=====	=====
=====	=====	=====	=====	=====
=====	=====	=====	=====	=====
メータファクタ(EDF) METER FACTOR(EDF)	L =====	H =====		

項 目 ITEM		結果 RESULT	項 目 ITEM	結果 RESULT		
プロセス接続 PROCESS CONNECTION	ANSI Class 150 フランジ形 ANSI Class 150 Flange Type	良, GOOD	電流出力検査 CURRENT OUTPUT	良, GOOD		
	配線接続口 ELECTRIC CONNECTION		ANSI 1/2NPT めねじ ANSI 1/2NPT Female Screw	良, GOOD	パルス出力検査 PULSE OUTPUT	良, GOOD
耐電圧 DIELECTRIC STRENGTH		(1)電源端子ー接地端子 POWER TERM. to GND TERM.	良, GOOD		アラーム/ステータス出力動作 ALARM/STATUS OUTPUT	良, GOOD
	(2)電源端子ー入出力端子 POWER TERM. to IN/OUT TERM. 1400VAC,2sec	ステータス入力動作 STATUS INPUT		良, GOOD		
	絶縁抵抗 INSULATION RESISTANCE	(1)電源端子ー接地端子 POWER TERM. to GND TERM.		良, GOOD	通信機能 COMMUNICATION CHECK	良, GOOD
		(2)電源端子ー入出力端子 POWER TERM. to IN/OUT TERM. 100MΩ,500VDC			表示器検査 DISPLAY CHECK	良, GOOD
(3)接地端子ー入出力端子 GND TERM. to IN/OUT TERM. (4)入出力端子ー入出力端子 IN/OUT TERM. to IN/OUT TERM. 20MΩ,100VDC		良, GOOD	漏洩試験 LEAK TEST		良, GOOD	
			外観 APPEARANCE		良, GOOD	

NOTES

日付 2015-09-23 室内温度, 湿度 20°C 82%
DATE 2015-09-23 AMBIENT TEMP. & HUM. 20°C 82%
検査者 承認者
INSPECTOR JIANG QIANG APPROVED BY SHENG QI

SK