AANDERAA INSTRUMENTS
5852 Bergen, Norway. Tel. +47 55 10 99 00

Test and Calibration Sheet

- Pressure Sensor 3815A ☐
- Pressure Sensor 3815B ☐
- Pressure Sensor 3815C ☐
- Pressure Sensor 3815D ☒
- Pressure Sensor 3815E ☐

Serial No: 826

1. Visual and Mechanical Checks:	Before casting	After casting
1.01 Treads	☒	
1.02 Swagelok cone	☒	☒
1.03 O-ring groves	☒	☒
1.04 Components correctly inserted	☒	
1.05 Soldering quality	☒	
1.06 O-rings		☒

2. Performance test:

2.01. Typical raw data reading in air for range:	0 - 700 kPa: (155-175)	☐
	0 - 3500 kPa: (30-60)	☐
	0 - 7000 kPa: (20-50)	☐
	0 - 20 MPa: (10-40)	29 ☒
	0 - 60 MPa: (10-40)	☐
2.02 Typical raw data reading at full range (Typical reading: 950-1010)		1009
2.03 Maximum temperature drift over the range -5 to +40 °C (max: ±2 LSB)		1

Date: 7/8-2003 Sign: Helge Soltveit

3. Calibration:

This sensor is calibrated against a Budenberg dead weight tester. Sensor accuracy better than ±0.25% of range. This is an absolute pressure sensor. Pressure range:

- 0 - 700 kPa (0 - 101.5 psi) ☐
- 0 - 3500 kPa (0 - 507.6 psi) ☐
- 0 - 7000 kPa (0 - 1015.2 psi) ☐
- 0 - 20 MPa (0 - 2901.0 psi) ☒
- 0 - 60 MPa (0 - 8702.0 psi) ☐

Pressure, ~~Bar~~ MPa	0,101	5,107	10,113	15,120	20,126
Raw data reading (N)	32	278	524	768	1011

Calibration formula: Pressure (~~Bar~~ MPa) = $A + BN + CN^2 + DN^3$

Calculated coeffients:

A: -5,444E-01
B: 2,025E-02
C: 1,950E-07
D: 0

Installation:

Special care should be taken when installing the sensor to prevent damage to the O-rings. If necessary, grease the O-rings. Coat the threads near the Top End-Plate after installation with TECTYL 506 to prevent crevice corrosion.

Date: 26/8-2003 Sign: Roar Dagmes

AANDERAA
INSTRUMENTS
5852 Bergen, Norway.Tel. +4755 10 99 00

Test and Calibration Sheet

Pressure Sensor 3815A ☐
Pressure Sensor 3815B ☐
Pressure Sensor 3815C ☐
Pressure Sensor 3815D ☒
Pressure Sensor 3815E ☐
Serial No: 827

1. Visual and Mechanical Checks:	Before casting	After casting
1.01 Treads	☒	
1.02 Swagelok cone	☒	☒
1.03 O-ring groves	☒	☒
1.04 Components correctly inserted	☒	
1.05 Soldering quality	☒	
1.06 O-rings		☒

2. Performance test:

2.01. Typical raw data reading in air for range:	0 - 700 kPa: (155-175)	☐
	0 - 3500 kPa: (30-60)	☐
	0 - 7000 kPa: (20-50)	☐
	0 - 20 MPa: (10-40)	34 ☒
	0 - 60 MPa: (10-40)	☐
2.02 Typical raw data reading at full range (Typical reading: 950-1010)		1005
2.03 Maximum temperature drift over the range -5 to +40 °C (max: ±2 LSB)		1

Date: 27/8-2003 Sign: Helge Soltveit

3. Calibration:

This sensor is calibrated against a Budenberg dead weight tester. Sensor accuracy better than ±0.25% of range. This is an absolute pressure sensor. Pressure range:

0 - 700 kPa (0 - 101.5 psi)	☐
0 - 3500 kPa (0 - 507.6 psi)	☐
0 - 7000 kPa (0 - 1015.2 psi)	☐
0 - 20 MPa (0 - 2901.0 psi)	☒
0 - 60 MPa (0 - 8702.0 psi)	☐

Pressure, ~~Bar~~ MPa	0,101	5,108	10,114	15,120	20,126
Raw data reading (N)	37	281	524	767	1007

Calibration formula: Pressure (~~Bar~~ MPa) $= A + BN + CN^2 + DN^3$

Calculated coeffients:

A: -6,518E-01
B: 2,043E-02
C: 2,003E-07
D: 0

Installation:

Special care should be taken when installing the sensor to prevent damage to the O-rings. If necessary, grease the O-rings. Coat the threads near the Top End-Plate after installation with TECTYL 506 to prevent crevice corrosion.

Date: 1/9-2003 Sign: Roar Dagmes

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AANDERAA INSTRUMENTS
5852 Bergen, Norway. Tel. +47 55 10 99 00

Test and Calibration Sheet

Pressure Sensor 3815A ☐
Pressure Sensor 3815B ☒
Pressure Sensor 3815C ☐
Pressure Sensor 3815D ☐
Pressure Sensor 3815E ☐

Serial No: 598

1. Visual and Mechanical Checks:	**Before casting**	**After casting**
1.01 Treads	☒	
1.02 Swagelok cone	☒	☒
1.03 O-ring groves	☒	☒
1.04 Components correctly inserted	☒	
1.05 Soldering quality	☒	
1.06 O-rings		☒

2. Performance test:

2.01. Typical raw data reading in air for range:	0 - 700 kPa: (155-175)	☐
	0 - 3500 kPa: (30-60)	32 ☒
	0 - 7000 kPa: (20-50)	☐
	0 - 20 MPa: (10-40)	☐
	0 - 60 MPa: (10-40)	☐
2.02 Typical raw data reading at full range (Typical reading: 950-1010)		1006
2.03 Maximum temperature drift over the range -5 to +40 °C (max: ±2 LSB)		1

Date: 21/8-2003 Sign: Helge Soltveit

3. Calibration:

This sensor is calibrated against a Budenberg dead weight tester. Sensor accuracy better than ±0.25% of range. This is an absolute pressure sensor. Pressure range:

0 - 700 kPa (0 - 101.5 psi)	☐
0 - 3500 kPa (0 - 507.6 psi)	☒
0 - 7000 kPa (0 - 1015.2 psi)	☐
0 - 20 MPa (0 - 2901.0 psi)	☐
0 - 60 MPa (0 - 8702.0 psi)	☐

Pressure, ~~Bar~~ kPa	100,7	801,6	1702,7	2503,7	3404,9
Raw data reading (N)	35	237	496	724	980

Calibration formula: Pressure (kPa) (~~Bar~~) = $A + BN + CN^2 + DN^3$

Calculated coeffients:

A: -2,015 E+01
B: 3,456 E+00
C: 4,032 E-05
D: 0

Installation:

Special care should be taken when installing the sensor to prevent damage to the O-rings. If necessary, grease the O-rings. Coat the threads near the Top End-Plate after installation with TECTYL 506 to prevent crevice corrosion.

Date: 26/8-2003 Sign: Roar Dagmes

28 CONTROL

AANDERAA INSTRUMENTS
5852 Bergen, Norway. Tel. +47 55 10 99 00

Test and Calibration Sheet

Pressure Sensor 3815A ☐
Pressure Sensor 3815B ☒
Pressure Sensor 3815C ☐
Pressure Sensor 3815D ☐
Pressure Sensor 3815E ☐
Serial No: 597

1. Visual and Mechanical Checks:	Before casting	After casting
1.01 Treads	☒	
1.02 Swagelok cone	☒	☒
1.03 O-ring groves	☒	☒
1.04 Components correctly inserted	☒	
1.05 Soldering quality	☒	
1.06 O-rings		☒

2. Performance test:

2.01. Typical raw data reading in air for range:	0 - 700 kPa: (155-175)	☐
	0 - 3500 kPa: (30-60)	31 ☒
	0 - 7000 kPa: (20-50)	☐
	0 - 20 MPa: (10-40)	☐
	0 - 60 MPa: (10-40)	☐
2.02 Typical raw data reading at full range (Typical reading: 950-1010)		1002
2.03 Maximum temperature drift over the range -5 to +40 °C (max: ±2 LSB)		1

Date: 21/8-2003 Sign: Helge Soltveit

3. Calibration:

This sensor is calibrated against a Budenberg dead weight tester. Sensor accuracy better than ±0.25% of range. This is an absolute pressure sensor. Pressure range:

0 - 700 kPa (0 - 101.5 psi)	☐
0 - 3500 kPa (0 - 507.6 psi)	☒
0 - 7000 kPa (0 - 1015.2 psi)	☐
0 - 20 MPa (0 - 2901.0 psi)	☐
0 - 60 MPa (0 - 8702.0 psi)	☐

Pressure ~~Bar~~ kPa	100,7	801,6	1702,7	2503,7	3404,9
Raw data reading (N)	34	235	493	722	976

Calibration formula: Pressure (~~Bar~~ kPa) = $A + BN + CN^2 + DN^3$

Calculated coeffients:

A: -1,613E+01
B: 3,464E+00
C: 4,079E-05
D: 0

Installation:

Special care should be taken when installing the sensor to prevent damage to the O-rings. If necessary, grease the O-rings. Coat the threads near the Top End-Plate after installation with TECTYL 506 to prevent crevice corrosion.

Date: 26/8-2003 Sign: Rune Dagmes