CALIBRATION CERTIFICATE

a xylem brand

Form No. 615, Dec 2005

Electronic board: 3045
Electronic board serial: 1586
Reference reading: 815

Product: RCM 8
Serial No: 4917
Calibration Date: April 25, 2012

For details; see the individual Calibration Sheets.

The calibration coefficients listed below are valid for sensors with the following serial numbers:

Sensor	Type	Serial No.	Range	
Temperature Sensor	1227		Wide:	-0.34 to 32.17 deg C.
			High:	10.08 to 36.04 deg C.
			Low:	-2.46 to 21.48 deg C.
			Arctic:	-2.64 to 5.62 deg C.
Conductivity Sensor				
Pressure Sensor				
Compass	1248	11857		
Rotor Counter	3077	-		

Calibration Coefficients:

Ch. No.	Parameter	A	B	C	D	Unit
1	Reference	0.000E+00	1.000E+00	0.000E+00	0.000E+00	-
2	Temperature Range					
	Wide					Deg. C
	High					Deg. C
	Low					Deg. C
	Arctic	-2.426E+00	8.095E-03	-1.601E-07	7.991E-11	Deg. C
3	Conductivity					mS/cm
4	Pressure					MPa
5	Direction	1.000E+00	3.500E-01	0.000E+00	0.000E+00	Deg. M
6	Speed	1.100E+00	2.906E-01	0.000E+00	0.000E+00	cm/s

* Value of parameter in given unit = $A + BN + CN^2 + DN^3$

Date:
April 25, 2012

Sign: Shawn A. Sneddon

Service and Calibration Engineer

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1. Visual and Mechanical Checks:

1.1 Epoxy coating intact (especially near Conductivity Cell)
1.2 No corrosion, O-ring groove Pressure Case
1.3 No corrosion, other parts
1.4 No marine fouling
1.5 Clean and inspect O-ring groove
1.6 Zinc anode installed
1.7 Rotor end play (0.1-0.5mm)
1.8 Pressure Sensor oil filled

2. Performance Tests of complete instrument:

2.1 Current consumption at continuous operation, maximum 120 mA
2.2 Current consumption between measurements at 120 min. interval, maximum 1.0 mA average
2.3 Test of all channels
2.4 Check remote start, PDC-4 output and external powering
2.5 Electrical isolation between system ground and Top end-plate
2.6 Compass verification

3. Final Check prior to Shipment:

3.1 Cleaned instrument
3.2 Temperature readings correspond to room temperature
3.3 Erased DSU installed
3.4 Set temperature range switch to original customer setting
3.5 Set interval switch to original customer setting
3.6 Inspect O-ring groove and clean
3.7 Replace Top-End Plate and Receptacle O-ring