



# CALIBRATION CERTIFICATE

a xylem brand

Form No. 615, Dec 2005

**Electronic board:** 3045s  
**Electronic board serial:** 2856  
**Reference reading:** 59

**Product:** RCM 8  
**Serial No:** 6737  
**Calibration Date:** April 27, 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	10738	
Rotor Counter	3240	907	

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	-2.933E+00	8.218E-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 =  $A + BN + CN^2 + DN^3$

\*Terminals 21 and 22 interconnected to reduce sampling rate of compass

Date:  
April 27, 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