

## RPM 2000 X, 6000 X AND 10000 X THE SECOND GENERATION OF ELECTRONIC REVERSING PRESSURE METERS



### Features:

- Replaces mercury instruments
- High resolution and accuracy
- Ranges of 2000 dbar, 6000 dbar and 10000 dbar
- Piezoresistive sensor
- Easy to read digital display
- Electronically protected against loss of sample value
- Displays mean value, standard deviation and burst samples
- Automatic offset nullbalance capability
- Easy handling
- Robust glass - titanium housing with double O-ring seals
- Modification with temperature sensor available

The RPM 2000 X, 6000 X and 10000 X is a family of digital deep sea pressure meters with the outer dimensions of mercury instruments. They have the same positive features as classical unprotected reversing thermometers but without the disadvantages:

- The displayed values are the real sample values. Use of a secondary thermometer is no longer required.
- Reading of values with maximum accuracy no longer needs optical magnification.
- Automatic offset nullbalance by initializing the sample mode.
- The sampled values are protected against inadvertent further reversing.
- Display the mean values, which are the average of sixteen individual readings of a burst series.
- For quality determination, the standard deviation is displayed and the individual measurements of the burst can be read out.

# PRESSURE METERS

## RPM 2000 X, 6000 X AND 10000 X

### Modes of Operation

#### Programme switch

Magnetic switch for complete stepping throughout programme allows the choice of three operational modes:



#### Programme switch at read out

(HOLD)

Enables read out of mean value and deviation.



#### Programme switch at read out burst

(BURST)

Enables display of burst values and air pressure offset.



#### Programme switch at sample

(SAMP)

Shows that the instrument is ready to take samples when reversed.



### Specifications

**Range:** 0.0 dbar to 2000.0 dbar (RPM 2000X)  
0.0 dbar to 6000.0 dbar (RPM 6000X)  
0.0 dbar to 9999.9 dbar (RPM 10000X)

**Resolution:**  $\pm 0.1$  dbar

**Accuracy:**  $\pm 0.1\%$  full scale  
over the temperature range  
 $-2$  °C to  $40$  °C

**Stability:**  $\pm 0.01\%$  per month

**Dimensions:** 327 mm length  
20 mm diameter

**Weight:** 180 g

**Sampling frequency:**  
1.25 Hz (0.8 seconds / sample)

**Burst sampling size:**  
16 samples

**Power supply:**  
One lithium thionyl chloride battery  
sufficient for 3000 samples.

**Switch:**  
Magnetic operation

SiS reserves the right to change specifications without prior notice



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