

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: ± 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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