

RTM 4002 X THE SECOND GENERATION OF ELECTRONIC REVERSING THERMOMETER



Features:

- Replaces mercury instruments
- High resolution and accuracy
- Range of -2.0000 °C to 40.000 °C
- Long-term stable platinum sensor
- Easy to read digital display
- Electronically protected against loss of sample value
- Displays mean value, standard deviation and burst samples
- Easy handling
- Robust glass - titanium housing with double O-ring seals
- 10000 m depth capability
- Suitable for laboratory use
- Modification with depth sensor available

The RTM 4002X is a digital deep sea reversing thermometer with the outer dimensions of mercury instruments. It has the same positive features as classical 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.
- The sampled values are protected against inadvertent further reversing.
- One instrument with a range of -2.0000 °C to 40.000 °C replaces a set of high precision mercury reversing thermometers.
- Displays the mean value, which is 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.

REVERSING THERMOMETER RTM 4002 X

Modes of Operation

Programme switch

Magnetic switch for complete stepping throughout programme allows the choice of four 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.



Programme switch at continuous

(CONT)

Enables continuous sampling and reading in laboratory use.



Programme switch at sample

(SAMP)

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



Specifications

Range: -2.0000 °C to 40.000 °C

Resolution: ±0.0001 °C (-2.0000 to 9.9999 °C)
±0.001 °C (10.000 to 40.000 °C)

Accuracy: ±0.003 °C

Stability: ±0.00025 °C per month

Dimensions: 327 mm length
20 mm diameter

Weight: 170 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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