

## 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:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>- The displayed values are the real sample values. Use of a secondary thermometer is no longer required.</li> <li>- Reading of values with maximum accuracy no longer needs optical magnification.</li> <li>- The sampled values are protected against inadvertent further reversing.</li> </ul> | <ul style="list-style-type: none"> <li>- One instrument with a range of -2.0000 °C to 40.000 °C replaces a set of high precision mercury reversing thermometers.</li> <li>- Displays the mean value, which is the average of sixteen individual readings of a burst series.</li> <li>- For quality determination, the standard deviation is displayed and the individual measurements of the burst can be read out.</li> </ul> |
|---|--|

# 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



SiS Sensoren Instrumente Systeme GmbH  
Mühlenkoppel 12, D-24222 Schwentinental, Germany  
Tel.: +49-431-79972-0 Fax: +49-431-79972-11  
Email: info@sis-germany.com  
WWW: <http://www.sis-germany.com>