MicroLog TC3 measuring set
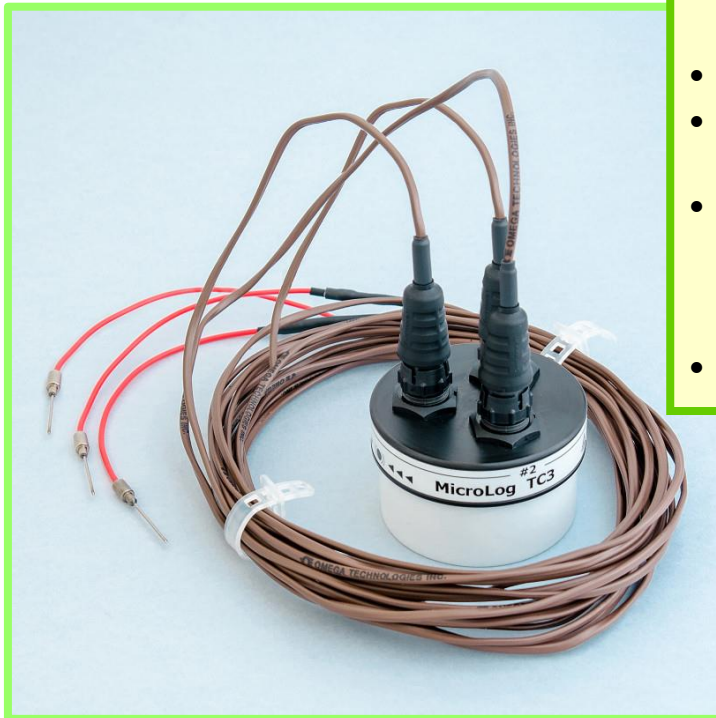
Main features:

- Small datalogging set intended for measurement with three T-type thermocouples
- Separated measurement of cold junction of each sensor built-in directly in sensor connectors
- Water sealed case
- Infrared data access without opening the enclosure
- Advanced Windows® software includes basic statistics, regression analysis and user programmable calculation
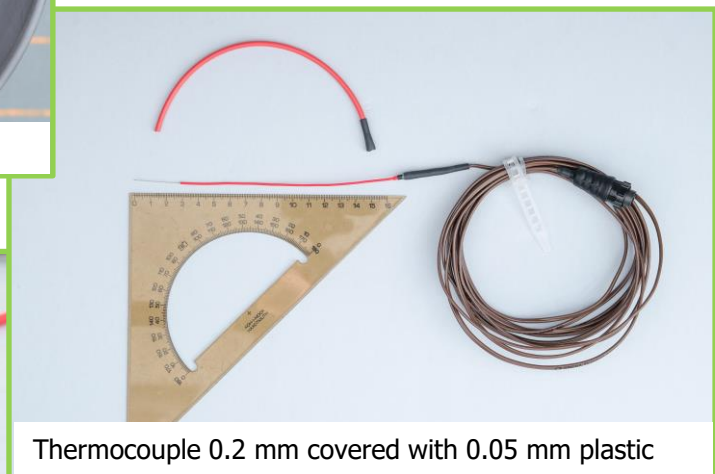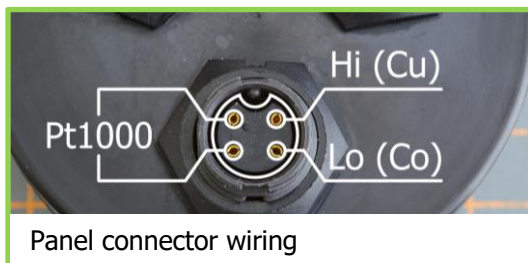- Manufactured by EMS

Specification:

- Ready for three sensors
- Temperature range -40 to 60 °C
- Accuracy ± 0.15 °C
- Resolution 0.002 °C
- Memory capacity 100,000 readings (3 years when measuring each hour)
- Battery capacity more than 4 years (when measuring each hour)
- Fully watertight – IP 68 rating
- Working range -40 to 60 °C
- High density Polyethylene case
- Size D70 x 40 mm (without connectors)

Specification

Memory capacity	256 kB (ca 100,000 values)
Input voltage resolution	16-bit
Measuring range	-40 to 60 °C
Accuracy	$\pm$ 0.15 °C
Resolution	0.002 °C
Measuring interval	3 sec to 4 hrs
Averaging (storing) interval	3 sec to 4 hrs
Internal clock accuracy (-20 to 40 °C)	better than $\pm$15 sec/month
Acceptable sensors	T-type thermocouple (needle or bare end)
Sensor connection	4-pin Switchcraft EN3P4FPX
Operating environment temperature	-40 to 60 °C
Operating environment relative humidity	0 to 100 %
Battery	SAFT LS14250CNA
Battery lasting (measuring every 10 minutes)	over 2 years
Battery lasting (measuring every 1 hour)	over 4 years
Size (diameter x length)	70 x 52 mm (incl. connectors)
Weight (incl. battery)	110 g

Panel connector wiring

Thermocouple 0.2 mm covered with 0.05 mm plastic

EMS TC40 – 1 mm needle 40 mm long

Software

Mini32 universal software is running under Windows® 8 and 10. The software assures all necessary operations – system setup, data downloading and processing. Its data processing part is made for work with large and long-time data series. It offers exceptionally sophisticated visualization and data manipulation, it includes basic statistic features, creates and prints graphs and exports data to different file formats.