

SMET-1A Thermocouple Adapter for Handy Data Loggers in SME Series

NEW PRODUCT INFORMATION



SMET-1A enables handy data loggers in SME series to measure temperatures through a thermocouple.

Specifications

(1) Applicable Thermocouples

K, T

(2) Number of Measuring Channels

(4) Input

(3) Sampling Period Approx. 0.5 s Terminal block

Applicable wire

Single wire: UL AWG 14 to 28 Stranded wire: UL AWG 20 to 24 (6) Adaptable Instruments

Handy data loggers SME-30A/31A

Networkable handy data loggers SME-100A/101A

(7) Check Function Burnout check (through handy data logger) (8) Oprg. Temp./Humid. Range 10 to 50°C, 20 to 85% RH (noncondensing)

42 (W) x 33 (H) x 29.5 (D) mm, excluding protrusions (9) Dimensions

(10) Weight Approx. 35 g

(5) Measuring Range, Accuracy and Resolution

Туре	Measuring Range	Accuracy			
		Temperature Range	External Reference Junction Compensation	Internal Reference Junction Compensation Ambient Temperature (25 ± 10)°C	Resolution
К	-200.0 to 1230.0°C	–200.0 to <–100.0°C	±(0.2% of reading + 0.6)°C	±(0.2% of reading + 2.6)°C	0.1°C
		–100.0 to 1230.0°C	±(0.1% of reading + 0.4)°C	±(0.1% of reading + 1.4)°C	
Т	–200.0 to 400.0°C	–200.0 to <–100.0°C	±(0.2% of reading + 0.6)°C	±(0.2% of reading + 2.6)°C	
		–100.0 to 400.0°C	±(0.1% of reading + 0.4)°C	±(0.1% of reading + 1.4)°C	

- Each stated accuracy does not include that of thermocouple.
- With each handy data logger in SME series, external or internal reference junction compensation is selectable.
- Thermocouple resistance is 1 k Ω or less.

Handy Data Loggers in SME Series

Connect a sensor to the SME and press the POWER button.

Then, the SME will read the wanted variable immediately.

A strap is provided standard for easy handling in field inspection or checking sensors under installation.

Handy Data Loggers SME-30A (right)/SME-31A
 Networkable Handy Data Loggers SME-100A (left)/SME-101A





 With the SME-100A/SME-101A, a network terminal box in NTB-100A series enables digital measurement in a maximum 33 channels.

Attractive Points Facilitating Operation

Compact, lightweight and handy design

Built-in bridge box ensures easy connection of strain gage.

Wide measuring range of $\pm 300000 \, \mu \text{m/m}$

TEDS compatible. Simple writing function too is provided.

SD card enables easy data transfer to PC.

Power supply: AA size dry cell available anywhere

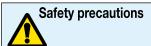
Typical Applications

Monitoring sensors under installation and maintenance/inspection in various fields including civil engineering and industrial machinery.

Small-scale experiments at schools and research institutes.



Specifications are subject to change without notice for improvement.



Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

Reliability through integration

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