

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

NEW PRODUCT INFORMATION



**SMET-1A**

Dimensions: 42 x 33 x 29.5 mm  
(excluding protrusions)



**SME-100A**

Dimensions: 108.4 x 188 x 41 mm  
(excluding protrusions)

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

## Specifications

- |  |   |                              |  |
|--|---|------------------------------|--|
| (1) Applicable Thermocouples                 | K, T  | (6) Adaptable Instruments    | Handy data loggers SME-30A/31A<br>Networkable handy data loggers SME-100A/101A |
| (2) Number of Measuring Channels             | 1   | (7) Check Function           | Burnout check (through handy data logger)                                      |
| (3) Sampling Period                          | Approx. 0.5 s   | (8) Oprg. Temp./Humid. Range | 10 to 50°C, 20 to 85% RH (noncondensing)                                       |
| (4) Input                                    | Terminal block<br>Applicable wire<br>Single wire: UL AWG 14 to 28<br>Stranded wire: UL AWG 20 to 24 | (9) Dimensions               | 42 (W) x 33 (H) x 29.5 (D) mm, excluding protrusions                           |
| (5) Measuring Range, Accuracy and Resolution |   | (10) Weight                  | Approx. 35 g   |

Type	Measuring Range	Accuracy			Resolution
		Temperature Range	External Reference Junction Compensation	Internal Reference Junction Compensation Ambient Temperature (25 ± 10)°C	
K	-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	
T	-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 kΩ 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.



JQA-0821  
JQA-EM4824

Specifications are subject to change without notice for improvement.



### Safety precautions

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

Manufacturer's Representative

Reliability through integration

**KYOWA**

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