

TEMPERATURE

THERMAL VIAL TEMPERATURE SENSING SYSTEM AS10 SERIES



DESCRIPTION

The **Minco AS10 Thermal Vial Temperature Sensing System** is ideal for freezers, coolers, and refrigeration units to monitor the temperature of the contents, rather than the air temperature. The vial is filled with fluid such as glycol or water which emulates the material being stored. The corresponding 4-20 mA output is matched calibrated to the RTD for improved system accuracy.

FEATURES

- **Sensor and transmitter calibrated together**
- **Optional display**
- **Sealed vial eliminates leakage**
- **NIST certification include**



AS10

SPECIFICATIONS

Supply Voltage	8.5 to 35 VDC loop powered	Transmitter	-13° to 185°F (-25° to 85°C)
Accuracy	±0.50% of span	Materials	Probe: material Stainless steel
Signal Output	4-20 mA @ 400Ω	Thermal	vial 6 oz (175 ml) polyethylene bottle with cap
Measurement Range	-148° to 32°F (-100° to 0°C) -58° to 122°F (-50° to 50°C) 32° to 212°F (0° to 100°C)	Thermowell	Delrin Enclosure: Polycarbonate
Sensor Type		Wiring Terminations	22 AWG Teflon insulated with TFE jacket overall
PM Curve	100Ω platinum three-wire 0.00385 Ω/Ω/°C	Dimensions	4.5" L x 2.6" W x 2.2" D (11.5 x 6.5 x 5.6 cm)
PF Curve	1000Ω platinum two-wire 0.00385 Ω/Ω/°C	Enclosure Rating	NEMA 1
Display	3-1/2 digit LCD, updates 3 times per second	Weight	0.97 lb (0.43 Kg)
Operating Temperature	Probe: -328° to 248°F (-200° to 120°C)	Warranty	3 years

ORDERING INFORMATION

MODEL	DESCRIPTION
AS103282	Thermal vial sensing system
PM	100Ω 0.00385 Ω/Ω/°C platinum curve
PF	1000Ω 0.00385 Ω/Ω/°C platinum curve
LLL	Cable length LLL in 1" increments
F	Display in °F
B	No display
Z	Range -148° to 32°F (-100° to 0°C)
M	Range -58° to 122°F (-50° to 50°C)
C	Range 32° to 212°F (0° to 100°C)

Example: AS103282PM72FZ:
Thermal vial 100Ω, 385 curve platinum RTD with 72" cable, display and Z temperature range

RELATED PRODUCTS

DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT
AC101540	Thermal Vial mounting bracket