MINCO

MADE IN USA

DESCRIPTION

The **Minco TT859 Platinum 1000Ω Space Temperature Transmitter** is DIP switch rangeable. Non-interacting multi-turn controls provide a constant resolution adjustment. Gold-plated DIP switches ensure stable overlapping incremental selections between -10° to 60°F (-23 to 15°C) for zero and 35° to 150°F (2° to 66°C) for span. The well ventilated housing allows quick and accurate temperature sensing and effective heat dissipation from the circuit. Repeatability is excellent because the **TT859** uses a platinum RTD as the sensing element. Calibrated system accuracy of the **TT859** is typically 0.25°F (0.14°C) with optional sensor matching. Once installed, it can be field-calibrated or re-ranged through coarse switch adjustments and fine tune with multi-turn zero and span pots. The two-wire termination points are insensitive to power supply polarity. This prevents reversed hookups and simplifies installation.

TT859PW

FEATURES

- *Substitute for discontinued Hy-Cal transmitters*
- *4-20mA signal*
- *Optimum flow-through ventilation*
- *Easy zero and span ranging (non-interacting)*
- *On-line calibration*
- *Non-polar connections*

SPECIFICATIONS

Supply Voltage	9.4-35 VDC	**Sensor Element**	100Ω platinum RTD, 385 curve
Signal Output	4-20 mA @ 730Ω, two-wire loop powered		1000Ω platinum RTD, 375 curve
		Operating Temperature	-40° to 185°F (-40° to 85°C)
Accuracy	±0.5°F (0.3°C) @ room temp or ±0.8% of span operating @ 24 VDC transmitter	**Enclosure Rating**	NEMA 1, Enclosure Plastic housing with aluminum faceplate
Linearity	Transmitter: ±0.1% of span (negligible)	**Wiring Terminations**	Screw terminals, non-polar, connect either way
Stability	Sensor: Better than 0.09°F (0.05°C) per year	**Dimensions**	4.5"H x 2.75"W x 1.58"D (11.43 x 6.98 x 4.01 cm)
Rangeability	Zero: -10° to 60°F (-23° to 15°C) Span: 35° to 150°F (2° to 66°C)	**Weight**	0.3 lb (0.14 Kg)
Span Adjust	Non-interacting	**Warranty**	3 years
Zero Adjustments	Non-interacting		

TEMPERATURE

19

TEMPERATURE

PLATINUM 1000 OHM SPACE TEMPERATURE TRANSMITTER
TT859 SERIES

DIMENSIONS

Transmitter mounted in cover

1
2
3
4

4.50
(11.43)

2.75
(6.98)

1.58
(4.01)
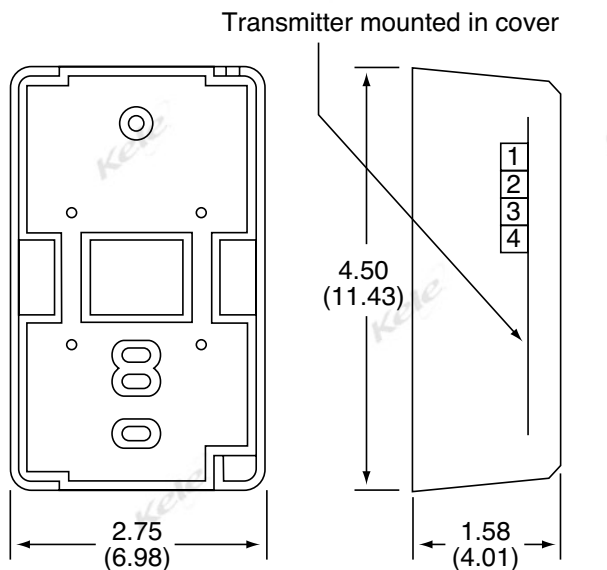
Housing Top View　　**Housing Side View**

**TT859
Decorative Wall-Mount
Temperature Transmitter**

WIRING

24 VDC ＋ ⊖

SPAN
ADJ.

4-20mA ⊖
Signal ＋

ZERO
ADJ.

RTD
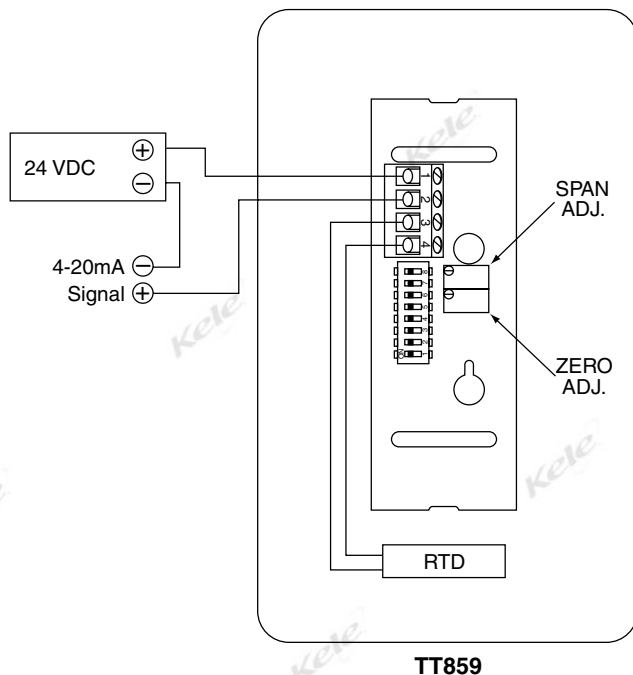
TT859

ORDERING INFORMATION

MODEL	DESCRIPTION				
TT859	Space temperature transmitter				
	PW	1000Ω 0.00375 Ω/Ω/°C platinum curve			
		1	4-20mA DC output		
			S	Range codes per Minco letter ranges (0°/100°F) (-18°/38°C)	
			H	Range codes per Minco letter ranges (40°/90°F) (4°/32°C)	
				1	No calibration data, sensor or transmitter
				2	Sensor/transmitter matched at 0°C with NIST

TT859	PW	1	S	1	*Example:* **TT859PW1S1** Room transmitter, 375 curve platinum RTD, ranged for 0°/100°F

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