



## DA576

# Precision Transmitter for Absolute and Differential Temperature Measurement



DA576 is designed for input signal from one or two Pt100 sensors in 4-wire connection and output in mA or V.

Thanks to a unique design DA576 provides an outstanding accuracy of  $\pm 0.03\text{ }^{\circ}\text{C}$  ( $\pm 0.05\text{ }^{\circ}\text{F}$ ) in both absolute and differential temperature measurement.

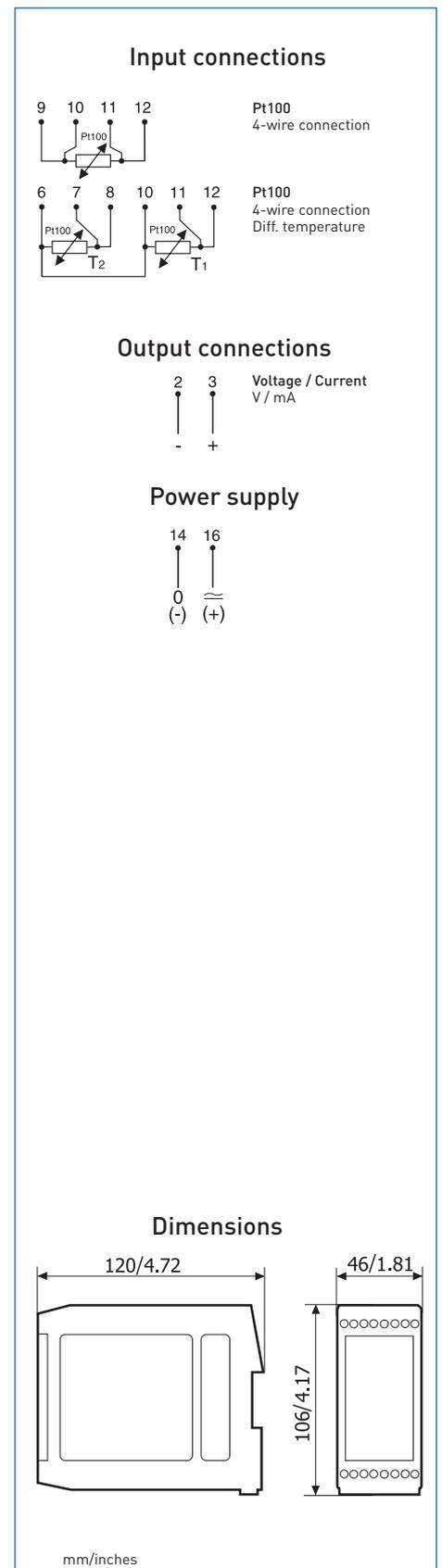
DA576 can be calibrated for measurement spans down to  $5\text{ }^{\circ}\text{C}$  ( $9\text{ }^{\circ}\text{F}$ ), e.g.  $-2.5$  to  $+2.5\text{ }^{\circ}\text{C}$ . Each unit is delivered with a calibration certificate.

The ideal transmitter for measurement of power/energy in hot water systems and efficiency in cooling systems.

- 1xPt100 ( $\alpha=0.00385$ ) input in 4-wire connection for absolute temperature
- 2xPt100 ( $\alpha=0.00385$ ) input in 4-wire connection for temperature difference
- Very small measuring spans for increased resolution
- Different output alternatives: 0-20 mA, 4-20 mA, 0-10 V
- True 4-wire sensor connection eliminates any influence of lead resistances and imbalance
- Plug-in terminals simplifies connection and disconnection
- DIN-rail mounting
- Each unit is delivered with a 4-point calibration protocol

### Specifications:

<b>Input</b>	Absolute temperature, 1 x Pt100	Differential temperature, 2 x Pt100
<b>Standard</b>	IEC 60751 ( $\alpha=0.00385$ )	IEC 60751 ( $\alpha=0.00385$ )
<b>Sensor connection</b>	4-wire	4-wire
<b>Range</b>	$-10$ to $+200\text{ }^{\circ}\text{C}$ / $+14$ to $+392\text{ }^{\circ}\text{F}$	$-50$ to $+50\text{ }^{\circ}\text{C}$ / $-58$ to $+122\text{ }^{\circ}\text{F}$
<b>Smallest span</b>	$5\text{ }^{\circ}\text{C}$ / $9\text{ }^{\circ}\text{F}$	$5\text{ }^{\circ}\text{C}$ / $9\text{ }^{\circ}\text{F}$
<b>Max wire resistance</b>	$10\ \Omega$ / lead	$10\ \Omega$ / lead
<b>Output</b>		
<b>Current versions</b>		0-20mA, 4-20 mA
<b>Voltage version</b>		0-10 V
<b>Operation temperature</b>		$0$ to $+60\text{ }^{\circ}\text{C}$ / $+32$ to $+140\text{ }^{\circ}\text{F}$
<b>Galvanic isolation</b>	Input to output	No
	AC power supply to input/output	2500 VAC, 1 min
	DC power supply to input/output	1500 VAC, 1 min
<b>Power supply</b>	AC versions	230 VAC, $-15$ to $+10\%$ , 45 to 75 Hz
		115 VAC, $-15$ to $+10\%$ , 45 to 75 Hz
	DC version	$19.0\text{...}60.0\text{ VDC}$
<b>Typical accuracy</b>		$\pm 0.03\text{ }^{\circ}\text{C}$ / $\pm 0.05\text{ }^{\circ}\text{F}$
<b>Connections</b>	Plug-in terminals	Stranded $\leq 2,5\text{ mm}^2$ , AWG 14
<b>Mounting</b>		Rail acc. to DIN EN 50022, 35 mm



### Ordering information

DA576, AC supply	Specify input type, range, output and supply voltage
DA576, 19-60 VDC supply	Specify input type, range and output