

DA576

Precision Transmitter for Absolute and Differential Temperature Measurement



DA576



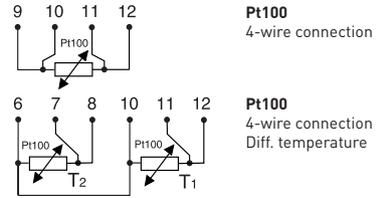
DA576 is designed for input signal from one or two Pt100 sensors in 4-wire connection and output in mA or V.
 Thanks to a unique design DA576 provides an outstanding accuracy of $\pm 0.03\text{ }^{\circ}\text{C}$ ($\pm 0.05\text{ }^{\circ}\text{F}$) in both absolute and differential temperature measurement.
 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

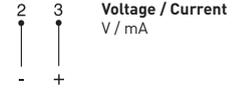
Specifications:

Input	Absolute temperature, 1 x Pt100	Differential temperature, 2 x Pt100
Standard	IEC 60751 ($\alpha=0.00385$)	IEC 60751 ($\alpha=0.00385$)
Sensor connection	4-wire	4-wire
Range	-10 to $+200\text{ }^{\circ}\text{C}$ / $+14$ to $+392\text{ }^{\circ}\text{F}$	-50 to $+50\text{ }^{\circ}\text{C}$ / -58 to $+122\text{ }^{\circ}\text{F}$
Smallest span	$5\text{ }^{\circ}\text{C}$ / $9\text{ }^{\circ}\text{F}$	$5\text{ }^{\circ}\text{C}$ / $9\text{ }^{\circ}\text{F}$
Max wire resistance	$10\ \Omega$ / lead	$10\ \Omega$ / lead
Output		
Current versions	0-20mA, 4-20 mA	
Voltage version	0-10 V	
Operation temperature	0 to $+60\text{ }^{\circ}\text{C}$ / $+32$ to $+140\text{ }^{\circ}\text{F}$	
Galvanic isolation	Input to output	No
	AC power supply to input/output	2500 VAC, 1 min
	DC power supply to input/output	1500 VAC, 1 min
Power supply	AC versions	230 VAC, -15 to $+10\%$, 45 to 75 Hz
		115 VAC, -15 to $+10\%$, 45 to 75 Hz
	DC version	19 to 60 VDC
Typical accuracy	$\pm 0.03\text{ }^{\circ}\text{C}$ / $\pm 0.05\text{ }^{\circ}\text{F}$	
Connections	Plug-in terminals	
Mounting	Stranded $\leq 2,5\text{ mm}^2$, AWG 14	
	Rail acc. to DIN EN 50022, 35 mm	

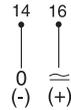
Input connections



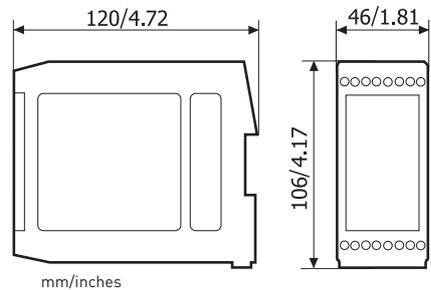
Output connections



Power supply



Dimensions



Ordering information

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