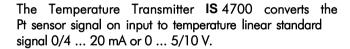


Temperature Transmitter IS 4700

Temperature Measuring with Pt100/Pt1000-Sensors

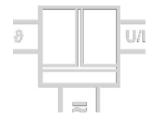


The configuration of the measuring input and the output can be easily switched with DIP switches. The zero/span potentiometers on the front panel provide easy range adjustment. After changing the standard factory setting, the measuring range must be recalibrated with a Pt simulator.

The small housing with 12.5 mm width saves space in your switch cabinet and facilitates by the practical plug-in screw terminal blocks the assembly. For range setting a simple housing unblocking is installed which makes it possible to reach easily all control elements on the mounting rail.

The universal power pack for 20 ... 253 V AC/DC means the IS 4700 can be used anywhere in the world, with all mains power supplies. The unit's high efficiency contributes significantly to reducing the unit's own heat generation. This is reflected in extremely high reliability and long-term stability.





Easy measuring range adjustment from -100 °C to +600 °C via potentiometer on the front panel

• Extensive configuration options

Measurement range, type of sensor, sensor connection and output signal can be set by using DIP switch

Universal power supply for 20...253 V AC/DC Applicable world-wide for all common supply voltages

3-Port Isolation

Protection against erroneous measurements due to parasitic voltages or ground loops

Ultra small sized housing

12.5 mm housing with plug-in screw terminal blocks

Protective Separation acc. to EN 61140

Protects service personnel and downstream devices against impermissibly high voltage

• Maximum reliability

Highest long-term stability and accuracy

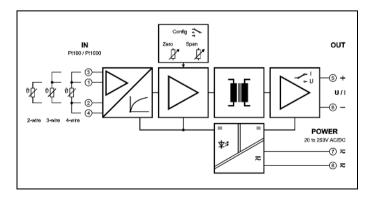
• 5 Years Warranty

Defects occurring within 5 years from delivery date shall be remedied free of charge at our plant (carriage and insurance paid by sender)

Block diagram

Tel.: 03303 / 50 40 66

Fax.: 03303 / 50 40 68

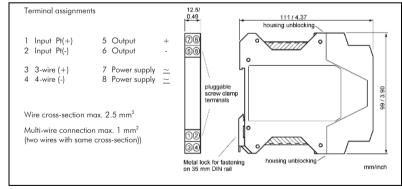




Technical Data

Input			
Input signal	Pt100 / Pt1000	switchable	
Sensor connection	2-wire, 3-wire, 4-wire		
Measuring range	Zero	-100 °C, -50 °C, 0 °C, 50 °C switchable	
		with Potentiometer ZERO 0 50 °C adjustable	
	Span	50 K, 100 K, 200 K, 300 K, switchable	
		with Potentiometer SPAN 100 200 % of span adjustable	
Sensor wire resistance	$< 25 \Omega$ per wire		
Sensor current	1 mA / 0.1 mA		
Sensor diagnostic	Sensor / wire break		
Output			
Output signal	0 20 mA 0 5 V 4 20 mA 1 5 V	0 10 V switchable 2 10 V	
Load	Current output	\leq 12 V (600 Ω at 20 mA)	
	Voltage output	\leq 12 V (600 32 di 20 HV) \leq 5 mA (2 k Ω at 10 V)	
Residual ripple	< 10 mV _{rms}	= 0 110 Y (2 K22 GI 10 Y)	
Sensor break action	Current output	> 22 mA	
	Voltage output	≥ 11 V	
General Data	Ŭ '		
Linearity	< 0.2 % of measuring spar	า	
Temperature coefficient ¹⁾	< 150 ppm/K		
Calibration	Max of 0.1 °C or 0.1 % of measuring span		
Response time T ₉₉	20 ms		
Test voltage	4 kV AC, 50 Hz, 1 min.	Input against output against power supply	
Working voltage (Basic Insulation) 2)	600 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1		
Protection against electrical shock ²⁾	Protective separation according to EN 61140 by reinforced insulation in accordance with EN 61010-1		
	up to 300 V AC/DC for overvoltage category II and pollution degree 2 between all circuits		
Ambient temperature	Operation	- 10 to + 60 °C (+ 14 to + 140 °F)	
	Transport and storage	- 20 to + 80 °C (- 4 to + 176 °F)	
Power supply	20 253 V AC/DC	AC 48 62 Hz, approx. 3 VA	
		DC approx. 1.5 W	
EMC ³⁾	EN 61326 -1		
Construction	12.5 mm (0.49") housing, protection class IP 20, mounting on 35 mm DIN rail acc. to EN 60715		
Weight	Арргох. 100 д	0000	

Dimensions



Subject to change!

Product line

Device	Order No.
Temperature Transmitter, configurable (0 100 °C pre adjusted)	IS 4700 AG

Tel.: 03303 / 50 40 66

Fax.: 03303 / 50 40 68

Approx. 100 g

Approx. 100 g

1) Average TC related to full scale value in specified operating temperature range, reference temperature 23 °C

2) For applications with high working voltages, ensure there is sufficient spacing or isolation from neighboring devices and protection against electric shocks.

3) Minor deviations possible during interference
Factory setting: Input: Pt100, 4-wire, Output: 0 ... 20 mA