

Temperature Alarm Unit IS 3600

Control and Monitor Pt-Temperature Signals

The Alarm Unit **IS** 3600 is used to monitor limit values and regulate simple automation processes in temperature measuring applications with Pt-Sensors.

High reliability and Protective Separation are essential characteristics that contribute to fault-free equipment operation.

Two switch channels can be separately configured. The switch point and the switch hysteresis can each be adjusted by means of their own 12-turn potentiometer located on the unit's front panel. The switch state is indicated by a yellow LED.

The direction of effect and the mode of operation can be switched by means of DIP switch settings. Both switch outputs can be set up as either MIN or MAX alarms. The relay contacts switch high power loads either as N.O. or N.C. contacts.

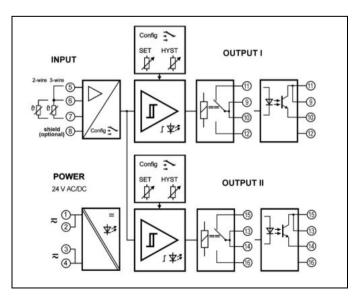
Protective Separation and the 24 V AC/DC power supply make the **IS** 3600 universally applicable for all measurement and industrial applications, as well as for building automation. • Easy selection of operating mode MIN / MAX alarm switch selectable, switch point and hysteresis adjustable on front panel

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- Relay with high power handling or wearless optocoupler switching output
- True 4-port separation Protection against erroneous measurements due to parasitic voltages or ground loops
- Switch state indicated by LED Easy to adjust the set point and hysteresis
- Protective Separation acc. to EN 50178 Protects service personnel and downstream devices against impermissibly high voltage
- High reliability and long-term stability No maintenance costs
- Unlimited use with 24 V AC/DC power supply Universally applicable for all measurement and industrial applications
- 5 Years Warrant

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



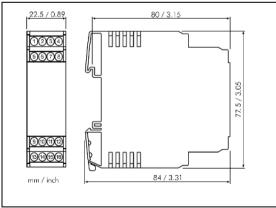


Technical Data

Input								
Sensor Input			Pt100	Pt200	Pt500	Pt1000	switchable	
Sensor current			1 mA	0,5 mA	0,2 mA	0,1 mA		
Sensor connection			3-wire connection / 2- wire connection, switchable					
Wire resistor			$<$ 10 Ω per wire					
Temperature measuring range Zero Span		-100 °C	-50 °C	0 °C	+50 °C	switchable		
		100 K	200 K	300 K	400 K	switchable		
Set point range			0 100 % of input range with 12-turn potentiometer , MIN/MAX-Alarm switchable					
Hysteresis			0 60 % of final value with 12-turn potentiometer					
Output								
IS 3600: Contact type			2 SPDT relays, mode of operation switchable					
Relay	Switching capability AC max.		250 V / 6 A 1500 VA					
	Switching capability DC max		250 V / 0,2 A 115 V / 0,3 A 30 V / 6 A					
			Recommended minimum load 300 mW / 5 V / 5 mA					
IS 3680:	Contact type	2 optocoupler transistor switches, mode of operation switchable						
Optocoupler Switching capability		30 V DC, max. 50 mA						
Switch state indicator			Yellow LED					
Response time			Approx. 20 ms					
General Data								
Set point error			< 0.2 % full scale					
Temperature coefficient ¹⁾			< 150 ppm/K					
Test voltage			4 kV AC, 50 Hz, 1 min. input against power supply against both switching outputs					
			2.5 kV AC, 50 Hz, 1 min. switching output I against switching output II					
Working voltage (Basic Insulation) ²⁾			600 V AC/DC for overvoltage category III and pollution degree 2 acc. to EN 50178 between input,					
			power supply and switching outputs. Up to 300 V AC/D between both switching outputs					
Protection against electrical shock ²⁾			Protective separation according to EN 50178 by reinforced insulation up to 300 V AC/DC for overvoltage category II and pollution degree 2 between input, power supply and switching outputs					
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Power supply			24 V AC/DC, ± 15 % AC 48 62 Hz, approx. 2 VA					
A 1.4			0		DC approx. 1 \		1 (0.05)	
Ambient temperature			Operation	1	- 20 to + 60	•		
			Transport and storage - 35 to + 85 °C (- 31 to + 185 °F)					
EMC ³⁾			EN 61326 -1					
Construction			22.5 mm (0.89") housing, protection class IP 20, mounting on 35 mm DIN rail acc. to EN 60715					
Weight	to full scale value in specified o		Approx. 100		22 °C			

Average TC related to full scale value in specified operating temperature range, reference temperature 23 °C
For applications with high working voltages, ensure there is sufficient spacing or isolation from neighboring devices and protection against electric shocks.
Minor deviations possible during interference

Dimensions



Subject to change!

Product line

Device	Order No.
Temperature Alarm Unit with relay contacts	IS 3600
Temperature Alarm Unit with transistor switches	IS 3680