

Electronic Temperature Switch

General information about ADIT-618IS Intelligent Electronic Temperature Switch

Introduction:

ADIT-618IS electronic temperature switch, transmitter and display in one device.

The temperature switch ADIT-618IS is robustly designed and very easy to use. The ADIT-618IS is suited for temperature monitoring, measurement and control, such as used in cleaning liquid, hydraulic oil, heat-carrying agent and lubricant etc. It is temperature switch, transmitter and display in one and the same device. In its standard configuration it has optional two switching outputs (PNP or NPN), an analog output signal (0...20mA| 4...20 mA or 0...5V| 0...10 V) as well as with RS485 Link.

The temperature switch ADIT-618IS takes the high integrated ARM industrial-grade MCU as the core. The ADIT-618IS ensures fast-speed and precise temperature measurement and switch movement by carefully adjustment and combining high-precision AD switch and high stable pressure sensor.



Other optional:

The setup using the three big back-lighted buttons and the display on machine make it very easy for on-site parameters setting.

The temperature measurement element is circularly rod shaped probe in which is sealed welded stainless. Hence, it is well suited for a large variety.

And there are various optional process connectors. Supporting standard MODBUS, the ADIT-618IS makes possible of remote data collection and parameters setting, free customers from buying extra communication adapters.

For electrical connection the ADIT-618IS has an M12x1 connector.

The ADIT-618IS compactly designed with housing with electrical connection against process connection rotatable 330°, display against housing turn able 180°, making it very easy for on-site installation and checking.

Application:

- Temperature monitoring, measurement and control, such as used in cleaning liquid, hydraulic oil, heat-carrying agent and lubricant etc
- Product features:
 - Temperature measurement in various occasions
 - PNP switching, voltage and current outputs
 - Switching points settable
 - Switching can be set normally open / normally closed
 - Supporting Switching delay
 - Various analog output ways available
 - Displaying temperature peak value and environment temperature
 - Analog output span settable
 - High light switch indicating
 - OLED self-luminous display
 - Display reversing 180°
 - Housing with electrical connection against process connection rotatable 330°
 - Industrial touch buttons
 - Various temperature units on display
 - Parameters setting for Password protection
 - Optional Chinese and English menu
 - Support MODBUS



Technical specification of the device:

Measuring range		-50...260°C
Accuracy		≤±0.5°C
Supply Power		12...30V DC
Temp. Measuring Element		PT1000
Respond time		≤5s
Temp. Drift		±0.15%/10K
Resolution		±0.01°C
Analog output accuracy		±0.2%FS
Output Configurations	switching+voltage+communication	2×PNP + 0V~5VDC/10VDC + MODBUS
	switching+current+communication	2×PNP + 0mA/4mA~20Madc + MODBUS
Switching current		1.0A(Max.)
Switching type		normally open , normally closed (settable)
Switching respond time		< 10ms
Switching delay		0.00s~1000.0s
Switching motion mode		delay or windows mode
Analog signal output and maximum ohmic load RL	Current output	0/4...20mA、 20...4/0mA RL≤0.5kΩ
	Voltage output	0...5/10V、 5/10...0V RL>10kΩ
Screen display		OLED
Menu language		Chinese、 English
Switching instruction		2X Red LED
Displaying pressure units		°C, °F, K
Buttons		3X blue back-lighted touch buttons
Displaying supplementary variables		environment temp., analog output value, max. Temperature peak value, minimum temperature peak
Supplementary variables displaying mode		fixed displaying or INFO button switching display
Working temperature		-30°C~80°C
Storage temperature		-40°C~80°C
Electromagnetism compatible		GB/T 17626.2/3/4-2006
Shock resistance		≤10g/10Hz...500Hz(IEC 60068-2-6-2007)
Vibration resistance		≤50g/11ms(IEC 60068-2-27-2008)
Protection Rating		IP65

