

WMT18082 Temperature Switch (Temperature Controller)



WMT18082 Ex-proof Temperature Switch (Controller) is a type of explosion proof product for temperature measurement and control with 2 or 5 relay controllers and transmission output of 4-20mA and RS485. It is a full electronic structure, converting the signal from temperature sensor (RTD or thermocouples) into standard output by high precise A/D microprocessor processing. It can display the temperature, and outputs the analog transmission and switching controllers. This smart digital switch is flexible, safe, reliable easy to operate. It is widely used in hydroelectric, petroleum, chemical, mechanical, hydraulic and other industries.

Features

- Simple wiring.
- The product can work as ex-proof requirement.
- ExdIICT6 ex-proof grade.
- Easy to set and operate.
- 100mm dial
- 4 bits LED display. WMT180825 has dual indicators
- The power supply is 24VDC and 220VAC optional

Technical Parameters

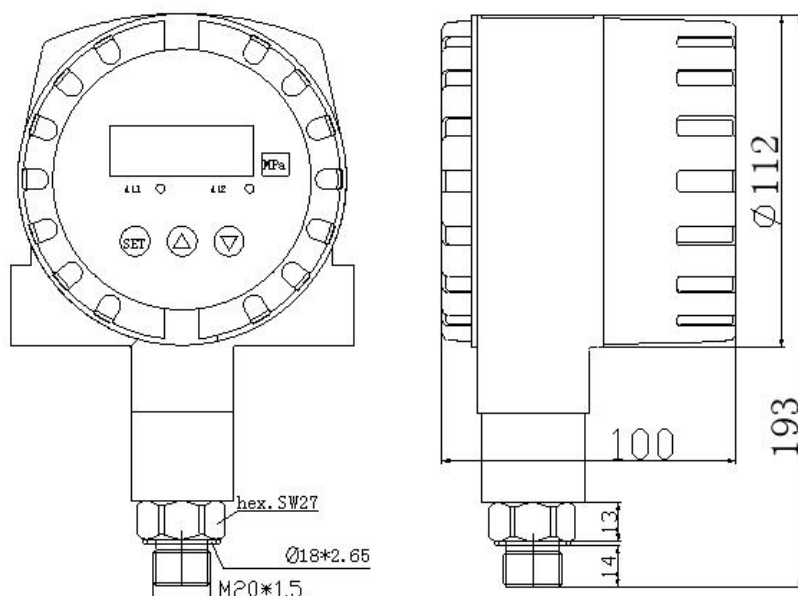
- Display: -1999~9999
- Accuracy: 0.5%
- Control output: relay, 4-20mA, RS485
- Pressure control points and hysteresis: Can be set in full range
- Contact capacity: 220V/3A, 24V/10A
- Power consumption: 1W
- Input voltage: 24V/220V optional
- Working temperature: -20 -70°C
- Compensation temperature: -10 -60°C
- Stability: $\pm 0.2\%$ FS/year



Housing Material: cast aluminum alloy

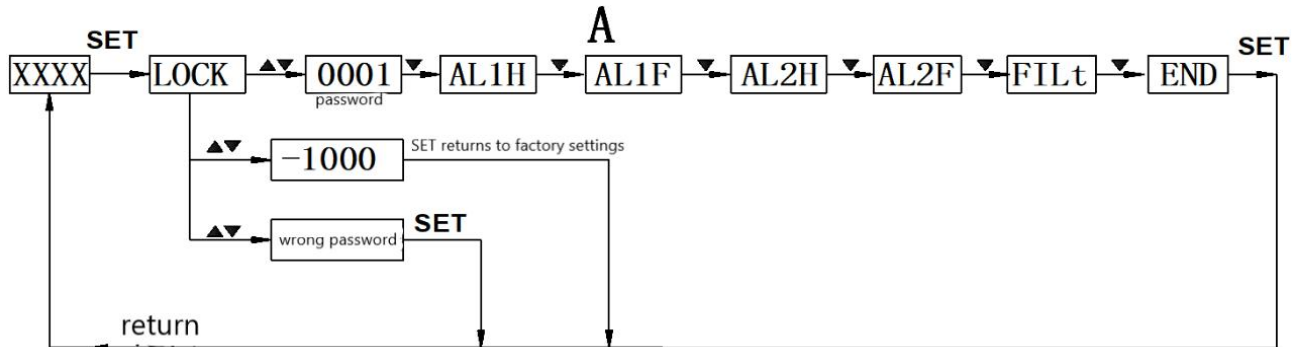
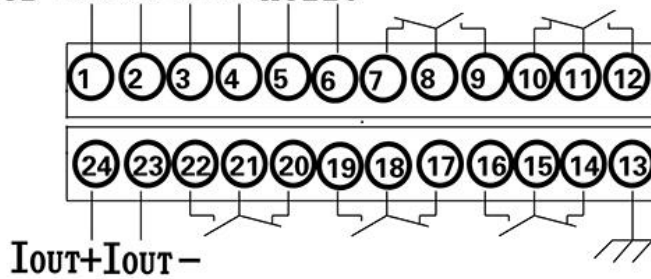
Ordering Codes (Model selection)

WMT1808	Temperature Switch (Controller)	
-	Housing type	2: Ex-proof cast alloy aluminum (2 relays output) 25: Ex-proof cast alloy aluminum (5 relays output, dual indicators)
-	(Temperature range)	e.g. 0-100℃ etc.
-	Wet Part Material	-S4: 304 Stainless Steel -S6: 316 Stainless Steel
-O	Signal Output	1: 4-20mA 2: RS485
-V	Power Supply	1: 24VDC 2: 220VAC
-A	Installment type	1: fixed thread 2: slide adjustable thread 3: rotatable adjustable thread 4: flange 5: clamp 6: none thread or flange 0: customer specified
	Thermo well	None: without TW: with thermo well
-	Size of installment	e.g. for A1, -1/2BSP or -M20*1.5 etc.; for A3, -2" or 3" etc.
-	(Diameter of Probe)	E.g. -6 (6mm), or -1/4". etc.
-	(Length of Probe)	E.g. -200 (200mm), or -8". etc.

Dimensions


Controlling Points Preset Step (Take WMT18082 as example):

485B 485ADC+ GND AC220



AL1H is the pull-in value of switch 1, AL1F is the release value of switch 1

AL2H is the pull-in value of switch 2, AL2F is the release value of switch 2

FILt this value is the display filter coefficient to prevent the display from jumping due to pressure fluctuation. The larger the filtering coefficient is, the more stable the display is, but the more lagged it is. 3 ~ 10 options

END save exit

Note: the switch point is determined by the configuration of the pull in value and the release value. When the pull in value is greater than the release value, it is the upper limit alarm output (normally open function). When the pull in value is less than the release value, it is the lower limit alarm output (normally closed function). The difference between the pull in value and the release value is the return difference of the switch point.

For example: to set the switch point 1 as the upper limit alarm output (normally open function) to draw at 100°C and to disconnect at less than 95°C; the switch point 2 as the lower limit alarm output (normally closed function) to disconnect at 200°C and to draw at less than 180°C:

Enter the menu: settings

AL1H=100.0 AL1F=95.0 AL2H=200.0 AL2F=180.0

Press "set" key ● display "lock" (prompt for password)

Press the ▲ or ▼ key to input the password "1", ● press the "set" key to confirm.

Press the ▲ or ▼ key to scroll up or down for menu selection (al1h, al1f, al2h, al2f, end)

Press "set" key to enter the selected menu. Press the ▲ or ▼ key to change the setting.

Press the "set" key to confirm. If necessary, select other menus to modify.

After modification, select "end" and press "set" to confirm save and exit.

If no key is pressed for 30 seconds, it will exit the setting state automatically, but the modified data will not be saved.