CITEC

Instruction manual of TE 710 intelligent temperature switch

Description

The intelligent temperature switch is a temperature controller that provides dual-channel digital outputs including normally open/normally closed, digital pressure display and 4-20 mA current output.

Features

·Elaborate and nice-looking contour design

·Field programmable switch parameters including switch threshold, normally on/normally off, etc.

·Switch function supports two modes of hysteresis and window

·Flexible 4-20mA output and corresponding pressure point migration

·Quick field zero calibration, fast switching the units

·Switching signal damping, switching signal filtering algorithm

·Field programmable pressure sampling frequency

·NPN/PNP switch freely

·180° flip of display information

·300° rotation of main body of instrument

Electrical connection

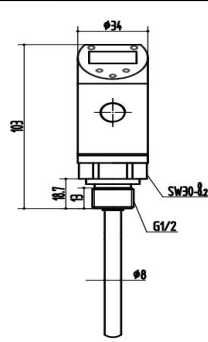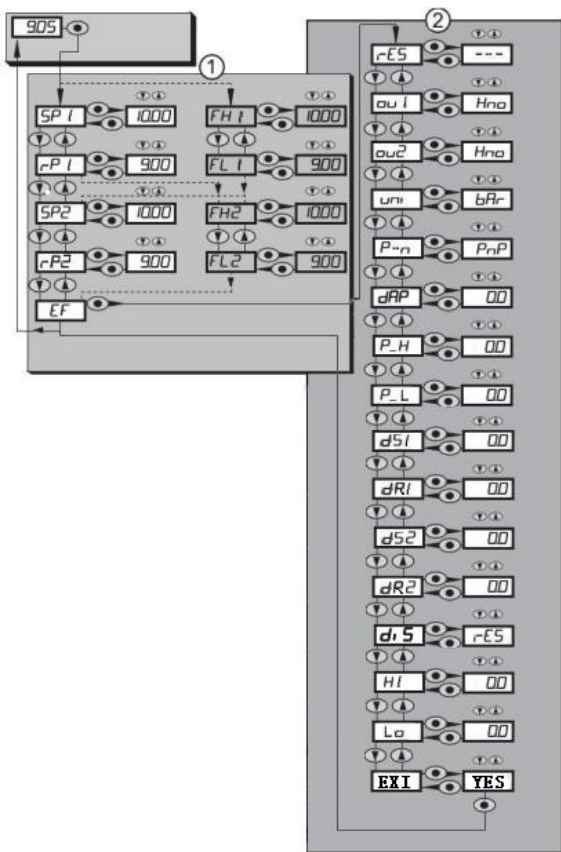| M12X1 connector	Function	Wire color
	1 VCC supply+	Brown
	2 SP2 switch 2	White
	3 GND supply-	Blue
	4 SP1 switch 1	Black
	5 4-20mA	Grey

Menu descriptions

Figure 1

Overall configuration

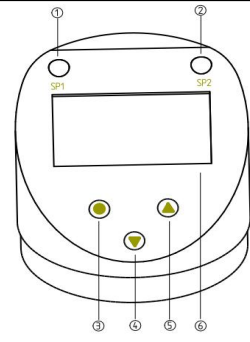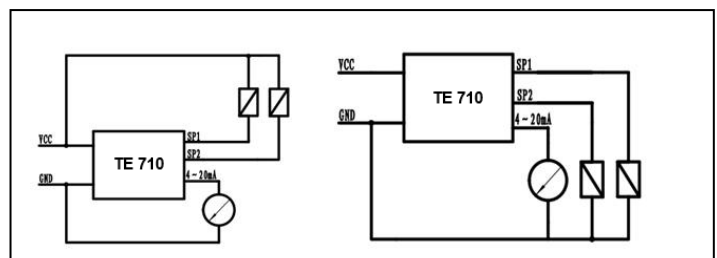

Figure 2

Display configuration

Introduction of display

① Alarm lamp of switching value 1

② Alarm lamp of switching value 2

③ [•] OK button

④ [▼] Down key

⑤ [▲] Up key

Operation instructions of buttons:

1.   When the pressure is displayed normally

 [•] Call out menu interface

 [▼] Quick zero correction

 [▲] Quick unit switching

2. When entering the menu interface

[•] OK / Exit

[▲][▼] Edit data

Recommended test circuit

NPN output

Wiring diagram

PNP output

Wiring diagram

Spx / rPx	Upper/lower limit of system temperature when OUx with hysteresis setting is turned on. If the parameter [Hno] or [Hnc] of OUTx is set in the extended function "EF" menu, Spx/rpx is displayed.
FHx / FLx	The upper/lower limit of the system pressure when Oux with window setting is opened. If the parameter [Fno] or [Fnc] of OUTx is set in the extended function "EF" menu, FHx/FLx is displayed.
EF	Extended function, open the second level menu
RES	Factory reset
OUx	Output mode selection
UNI	Select ℃ and ℉ display units, two units optional
P-N	NPN/PNP switch mode selection
DAP	Damping parameter
P-H/P-L	Full/zero migration of transmitter
DSx/DRx	Switch action delay
DIS	Inverted display on the screen
HI/LO	Historical maximum/minimum value
EXI	Exit the setting interface