

TFTC-400

Electronic Temperature Switch split-type

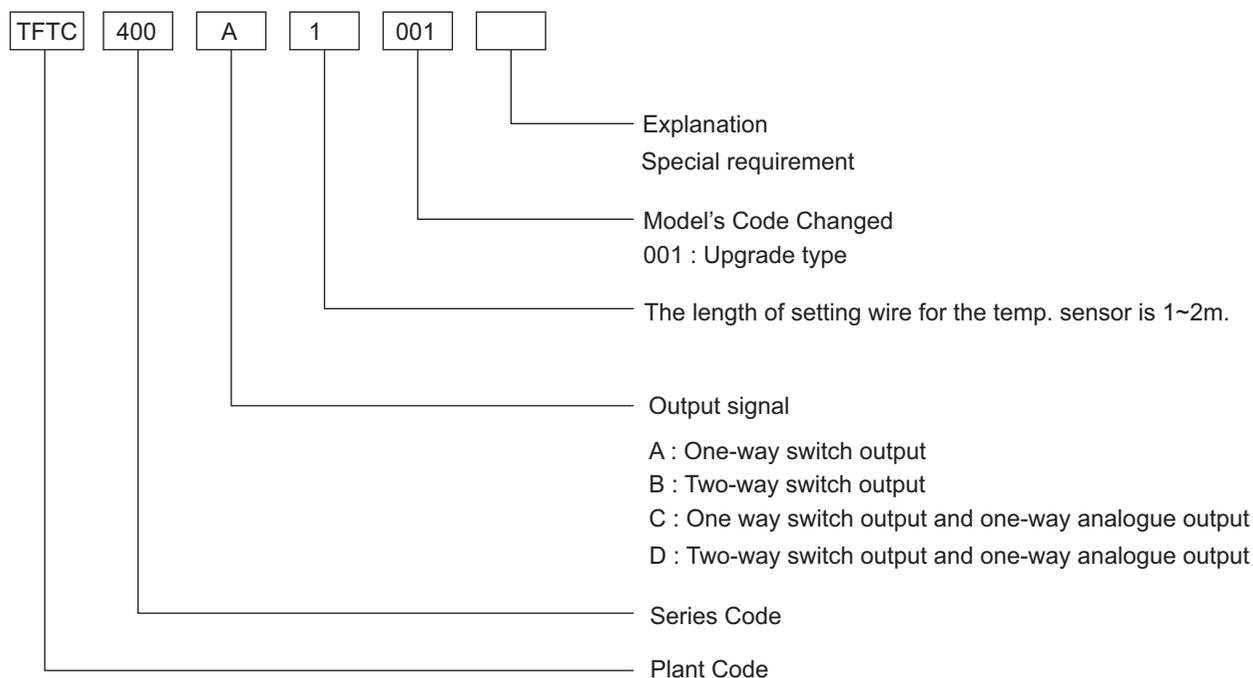


Introduction

Type TFTC-400 is a temp. controlling unit, gathering displaying and controlling functions. It is high in precision, small in volume, which can be matched with temp. sensor with oil tank (TFGW-100) mainly control the temp. in hydraulic and lubricate drive system.

It has one or two switch value outputs (transistor output), selecting standard-analogue valve output of one way (4~20mA), and wiring with upper computer and PLC controlling system, you can set the switch point and prolongation by pushing button.

Ordering details

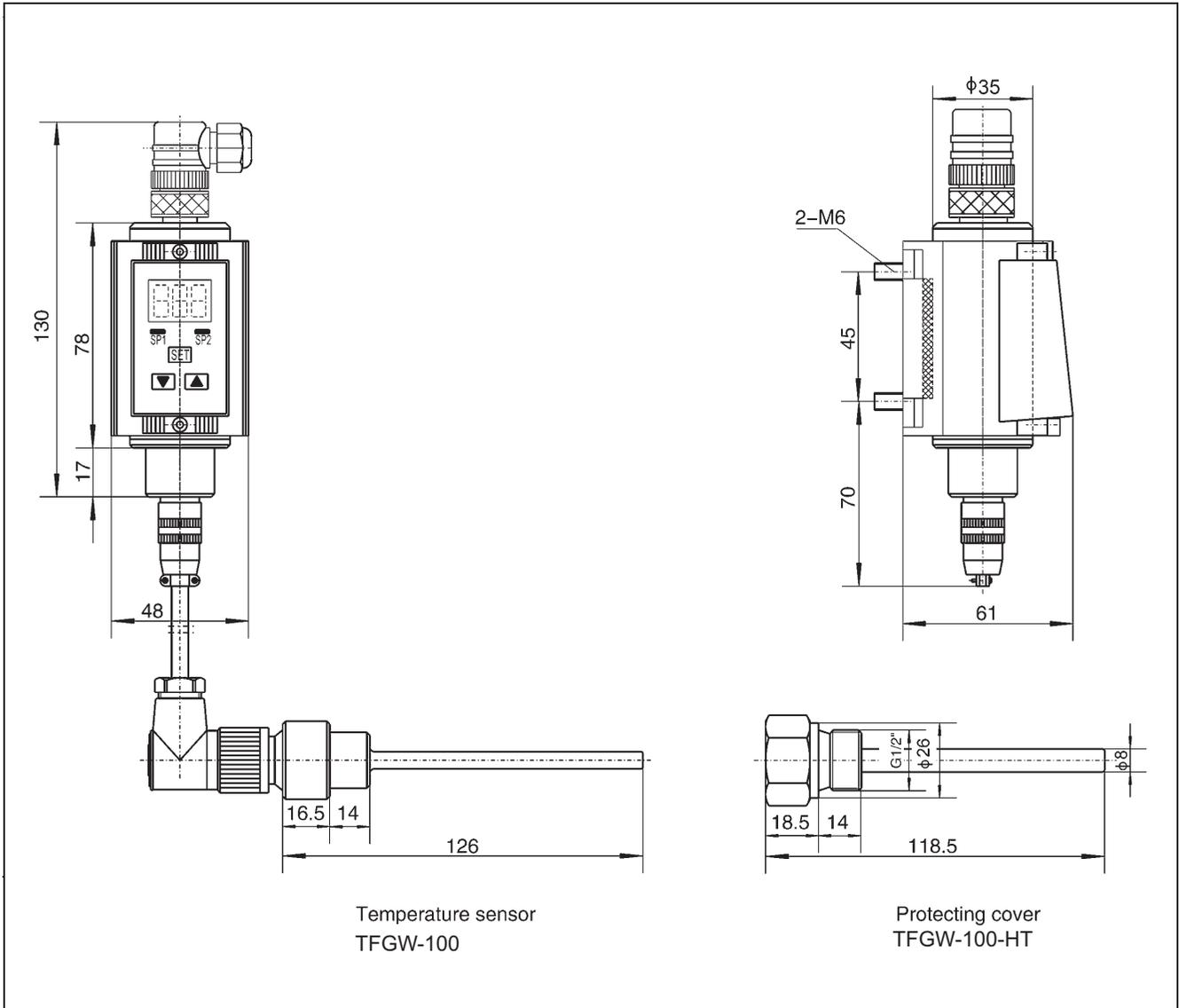


Technical data

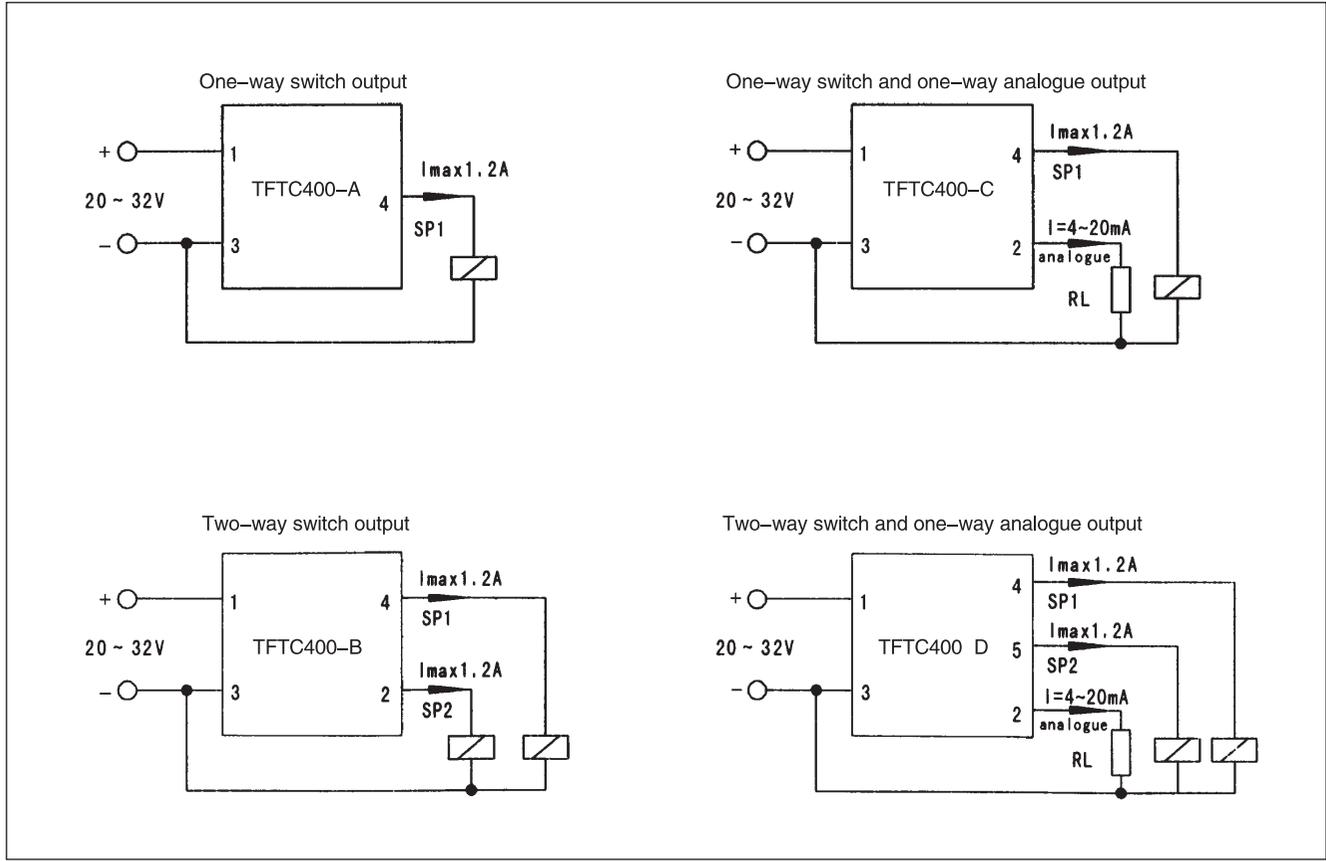
Basic data	
Measuring range (°C)	-30~150
Output data	
Accuracy (display/analogue output)	≤ ± 1.0%FS
Temperature excursion	≤ ± 0.3%/10°C
Analogue Output	
Output Signal	4~20mA, Resistance ≤ 400Ω
Switch output	
Output type	Transistor output (PNP)
Switch current	1.2A
Response time	20ms About 10ms
Ambient condition	
medium temp. range (°C)	-30~+150
Ambient temp. range (°C)	-25~+70
Other data	
Power Supply	20~32 VDC
Current consumption	100mA About 100mA
Panel display	3-digit, 7-section LCD display, red, word height 9.2mm
Protecting class	Ip65
Accessories	
Temp. Sensor	TFGW-100
Protecting cover for sensor	TFGW-100-HT

Unit Dimensions

(Dimensions in mm)

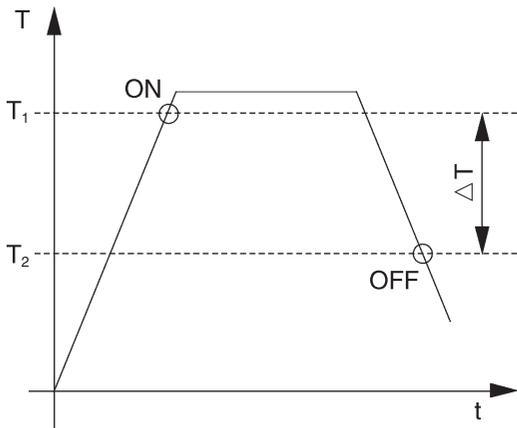


Wiring Diagram



Switching point and switch-back point

- ➔ The switching point is defined as being the temp. valve, which when it is reached (while temp. is increasing) causes a change in the relay state.
- ➔ This output state is maintained until the temp. falls below the switch-back point allocated to the switching point.
- ➔ The switch-back point is the temp. valve at which the output relay switches back to its original state.
- ➔ The difference between the switching point and switch-back point is refined as being the switch-back hysteresis.



T_1 = Switching point
 T_2 = Switch-back point
 ΔT = Switch-back hysteresis (switching point minus switch-back point)

