

## FEATURES

- The protection tube is made of 304 stainless steel with strong corrosion resistance and excellent mechanical properties
- With reverse protection function
- High protection level up to IP65



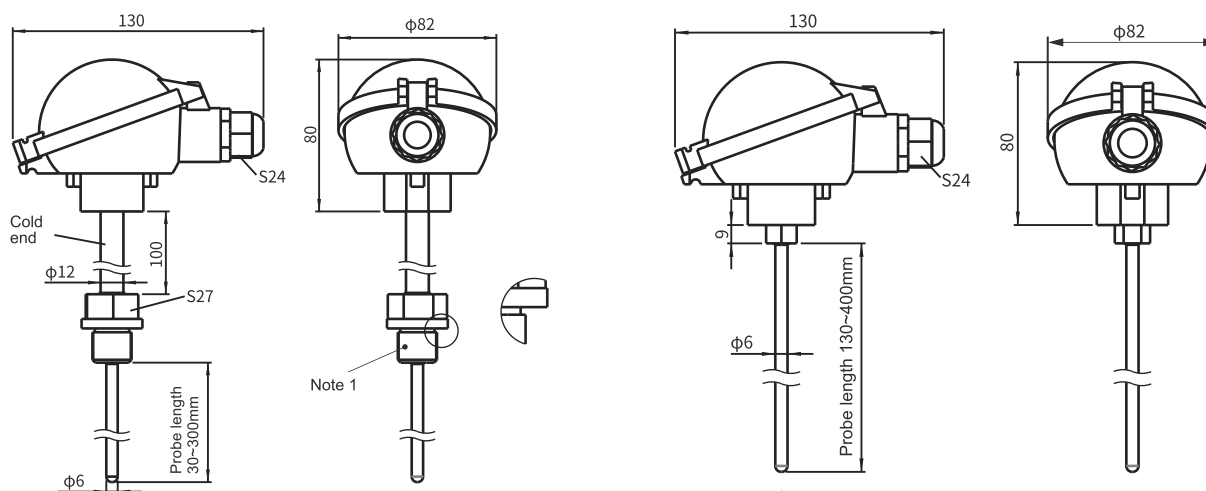
## DESCRIPTION

LFW20 series temperature transmitter adopts high-precision platinum resistance, the probe rod is made of 304 stainless steel integrated processing, with strong corrosion resistance and excellent mechanical properties, can work stably for a long time. A variety of installation options, suitable for different working conditions, widely used in petroleum, chemical, heating, hydrology, HVAC and other industrial site temperature measurement.

## SPECIFICATION

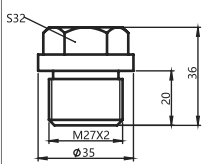
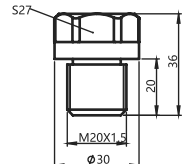
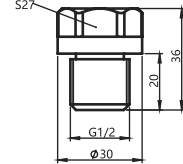
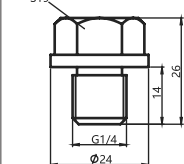
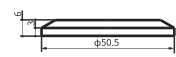
Measuring medium	Liquid or gas, etc. (compatible with contact materials)
Measuring range	-50~300°C (see range parameter selection table for details)
Output signal	4~20mA / 0-10V / RS485 / PT100 / PT1000
Supply voltage	15~35VDC
Accuracy	0.25%FS、0.5%FS
Working environment	-40~85°C、0~95%RH (No condensation)
Housing material	Die-cast aluminum housing、304 stainless steel probe rod and casing
Protection level	IP65. Note: this protection level refers to the level achieved after the electrical connection is complete

## DIMENSION (mm)



· Sleeved Type ·

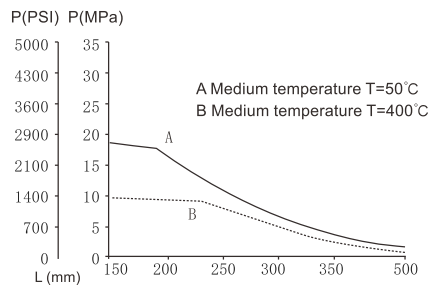
· Direct Insert Type ·

Thread Size					
Thread Spec	M27*2	M20*1.5	G1/2	G1/4	Clamp size 50.5MM

## PARAMETRIC CURVE

### ① Pressure resistance characteristics

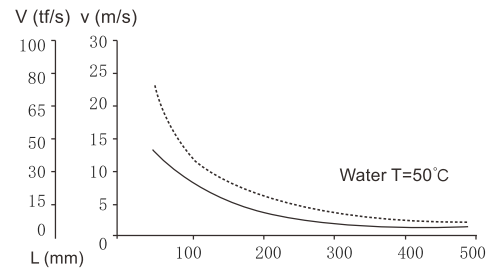
The pressure that protective tube withstand changes with the tube length (see the figure below)



Protective tube diameter 6MM, wall thickness 1.0MM,  
L: immersion depth, P: process pressure

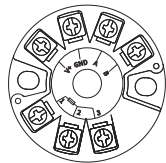
### ② Medium flow

The maximum medium flow rate that the protective tube can withstand decreases with the increase of insertion depth (see the figure below)

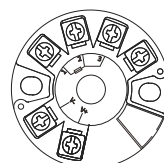
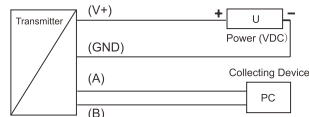


Protective tube diameter 6MM, wall thickness 1.0MM,  
L: immersion depth V: flow rate

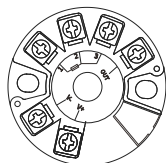
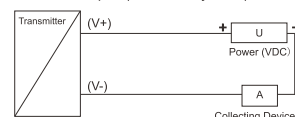
## WIRING INSTRUCTION:



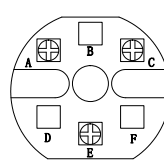
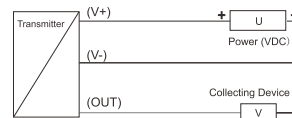
#### • RS485 Output



#### • Current Output (two wire system)



#### • Voltage Output (three wires system)

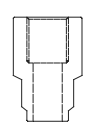
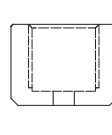
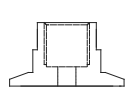
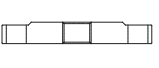
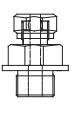
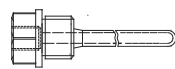
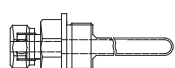


A C E  
Red Red White



• PT100/PT1000 output wiring diagram

## ACCESSORIES PURCHASE SEPARATELY)

 Staged welded ring	 Flat welded ring	 Clamp adapter	 Flange adapter	 Ferrule adapter	 Integrated sleeve
 Ferrule tube					
Welded ring		Adapter			Protective tube

## ORDER REF NO.

Code and description										Remark	
LFW20	Armored Temperature Transmitter									Model	
	A4	4~20mA (2-wired)			0	PT100, ±0.2℃@0℃				Temperature Output	
	V10	0-10V (3-wired)			1	PT1000, ±0.2℃@0℃					
	RS	RS485 / Modbus									
		25	0.25%FS								Accuracy
		50	0.5%FS								
		0	0~100℃								Temperature Range
		1	0~200℃ (with cold end)								
		2	0~300℃ (with cold end)								
		3	-50~150℃ (with cold end)								
		4	-50~300℃ (with cold end)								
		X	Customized (temperature range -50~300℃)								
		0	Water-proof								Wiring Box
		G2	G1/2 male (fixed thread installation)				Sleeved Type	Installation Method			
		G4	G1/4 male (fixed thread installation)								
		M16	M16*1.5 male (fixed thread installation)								
		M20	M20*1.5 male (fixed thread installation)								
		M27	M27*2 male (fixed thread installation)								
		K	Clamp (50.5MM)								
		Z					Direct Insert Type				
	0	With								Protective tube	
	1	Without									
		L30	30mm				Sleeved Type	Probe length (without thread)			
		L50	50mm								
		L100	100mm								
		L150	150mm								
		L200	200mm								
		L300	300mm								
		X	customized				Direct Insert Type				
		L130	130mm								
		L200	200mm								
		L250	250mm								
		L300	300mm								
		L400	400mm								
		X	Customized								
		0	Without cold end(15mm)							Code End	
		1	Cold end length 100mm								
		X	Customized								
LFW20	A4	50	1	0	G2	0	L100	1	Model Selection Example		

1. LFW20-A4-50-1-0- G2-0-L100-1 represents an armored temperature transmitter; output 4-20mA; accuracy 0.5%FS; temperature range 0~200°C (cold end required); junction box form is waterproof; installation method is G1/2 external thread (fixed thread installation); no protective sleeve; probe length 100mm; cold end length 100mm.

2. When selecting the installation method and probe length, the selection should be consistent with sleeved type or direct insert type.

3. The operating temperature without cold end should be  $\leq 120^{\circ}\text{C}$ ; when the operating temperature is  $> 120^{\circ}\text{C}$ , you are advised to increase the length of the cold end

4. Protection sleeve parameters: diameter 10mm, mounting thread G1/2 male, length matching the length of the probe.