

FEATURES

- With reverse connection and overvoltage protection;
- Small size, light weight, easy to install;
- Suitable for temperature measurement of fluid media, able to work stably for a long time.



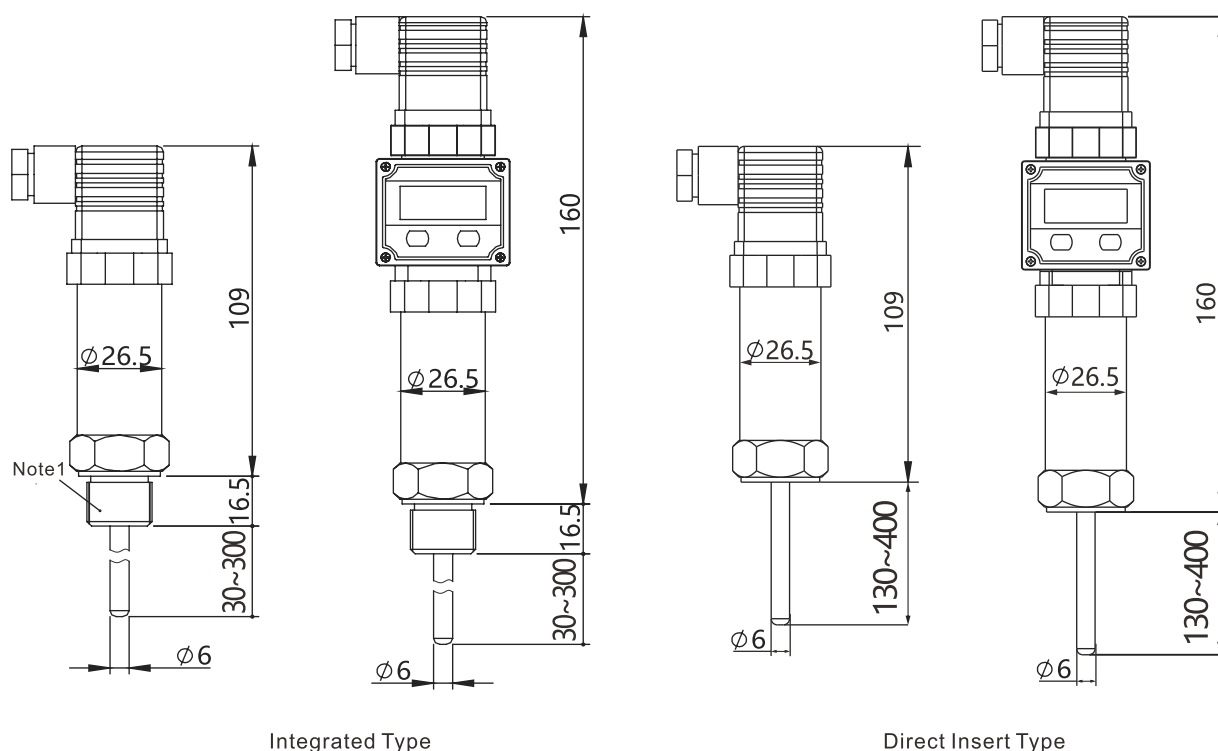
DESCRIPTION

LFW21 Integrated Temperature Transmitter uses a high-resolution and high-precision temperature sensor as the measuring element. The amplifier circuit is located in a 304 stainless steel housing to convert the sensor signal into an analog signal output. This product is widely used in temperature measurement at industrial sites such as petroleum, chemical industry, electric power, hydrology, etc.

SPECIFICATION

Measuring medium	Liquid or gas, etc. (compatible with contact materials)
Measuring range	-50~200°C (see Order Ref. No.)
Output signal	4~20mA/0-10V/PT100/PT1000
Supply voltage	15~33VDC
Accuracy	0.5%FS
Working environment	-40~85°C , 0~95%RH (no condensation)
Shell material	304 stainless steel probe rod and casing, ABS Hirschmann connector
Protection level	IP65 (without display) , IP54 (with display) Note: The above protection level refers to the level achieved after the electrical connection is complete.

DIMENSION(mm)

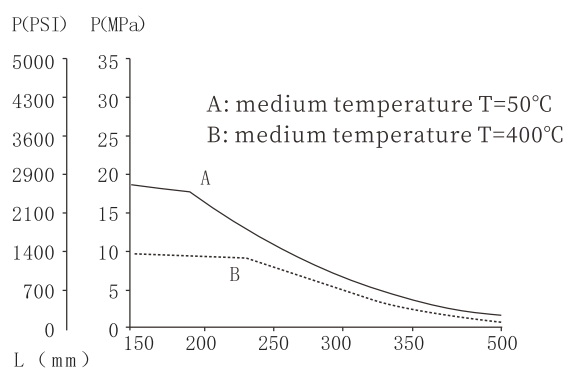


Note1:

Thread Size				
Thread Type	M20*1.5	G1/2	G1/4	Clamp 50.5MM

PRESSURE RESISTANCE CHARACTERISTICS

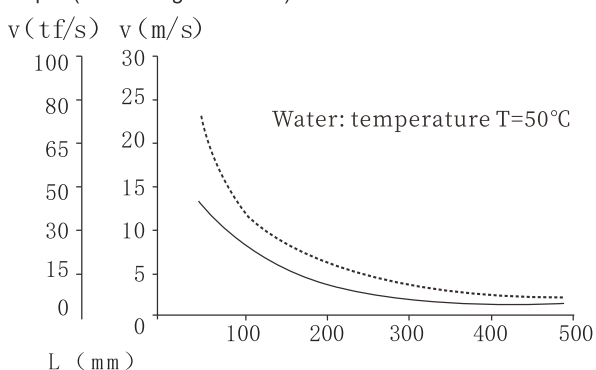
The pressure that protective tube withstand changes with the tube length (see the figure below)



Protective tube diameter 6MM, wall thickness 0.5MM, L: immersion depth, P: process pressure

MEDIUM FLOW

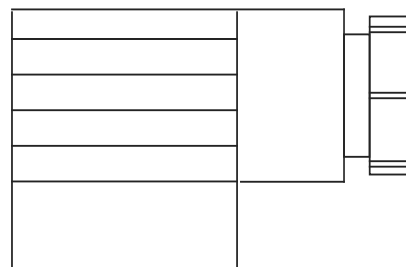
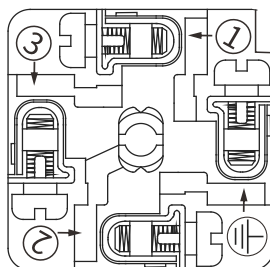
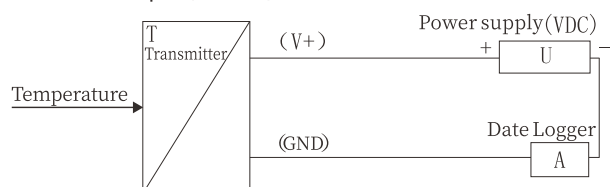
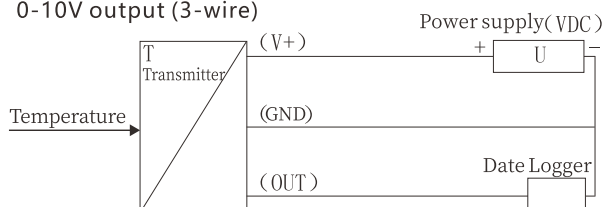
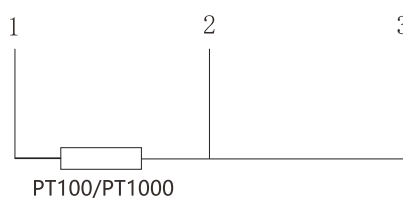
The maximum medium flow rate that the protective tube can withstand decreases with the increase of insertion depth (see the figure below)



Protective tube diameter 6MM, wall thickness 0.5MM, L: immersion depth V: flow rate

WIRING INSTRUCTION

Mark	2-wire	3-wire
1	V+	V+
2	GND	GND
3		OUT
$\perp$		

**4-20mA output(2-wire)****0-10V output (3-wire)****PT100/PT1000 Output(3-wire)**

ORDER REF NO.

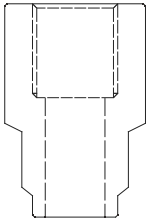
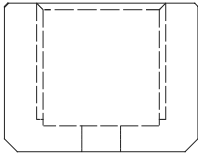
CODE AND DESCRIPTION										Remark		
LFW21		Integrated Temperature Transmitter								Model		
		A4	4~20mA(2-wire)			0	PT100, ±0.2℃@0℃			Temperature Output		
		V10	0-10V (3-wire)			1	PT1000, ±0.2℃@0℃					
			0	0~100℃							Temperature Range	
			1	0~200℃								
			2	-50~50℃								
			3	-50~100℃								
			4	-50~200℃								
			X	customized (temperature range -50~200℃)								
			G2	G1/2 male (fixed thread installation)				Integrated Type		Installation Method		
			G4	G1/4 male (fixed thread installation)								
			M20	M20*1.5 male (fixed thread installation)								
			K	clamp (50.5MM)				Direct Insert Type				
			Z									
			0	without							Protective Tube	
			1	with								
				L30	30mm			Integrated Type		Probe Length (excluding thread)		
				L50	50mm							
				L100	100mm							
				L150	150mm							
				L200	200mm							
				L300	300mm							
				X	customized							
				L130	130mm			Direct Insert Type				
				L200	200mm							
				L250	250mm							
				L300	300mm							
				L400	400mm							
				X	customized							
				0	without							Display
				1	with							
LFW21 A4 0 G2 0 L100 0										Selection Example		

Note:

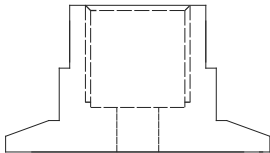
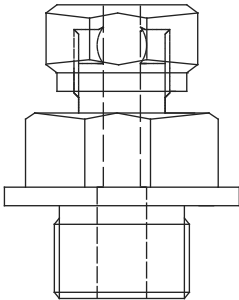
- 1.LFW21-A4-0-G2-0-L100-0 represents an integrated temperature transmitter, output 4-20mA,temperature range 0~100°C,threaded interface is G1/2 (fixed thread installation), no protective sleeve tube,probe length 100mm,no display.
- 2.When selecting the installation method and probe length, need to consider those are for integrated type or direct insert type.
- 3.Protective tube parameters: diameter 10mm, mounting thread G1/2 external thread, length matching the length of the probe.

ACCESSORIES (NEED PURCHASE SEPARATELY)

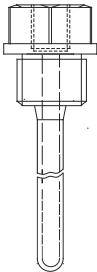
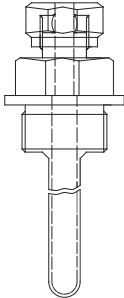
Welded ring

	
Staged welded ring	Flat welded ring

Adapter

		
Clamp adapter	Flange adapter	Ferrule adapter

Protective tube

	
Integrated probe casing	Sleeve type bushing