

LFT3100 Temperature and Pressure Integrated Transmitter

FEATURES

- Adopt oil-filled diffusion silicon core with high precision and high overload capacity
- Temperature and pressure dual output, compact structure, saving installation space
- Support Modbus-485 communication protocol (intelligent type)
- The temperature-sensitive element and the pressure-sensitive element are packaged as a whole, which is closer to the medium temperature



DESCRIPTION

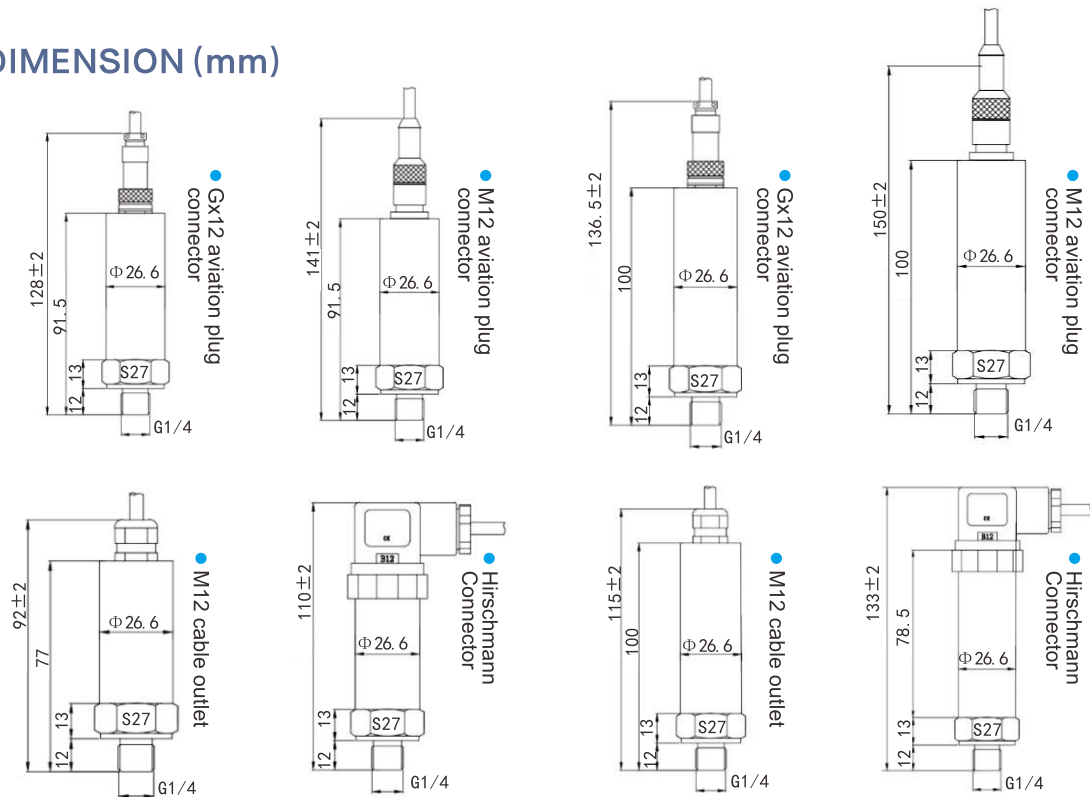
LFT3100 temperature and pressure integrated transmitter adopts advanced piezoresistive pressure sensor and PT-100 temperature sensor, which is converted into a standard output signal through a special signal conditioning circuit. It has the advantages of advanced temperature digital compensation, wide operating temperature range and full output signals. It is suitable for the monitoring of pressure and temperature in crude food and water treatment systems.

SPECIFICATION

Measurement Range	0~10kPa ... 70MPa		
Temperature Range	-20~100°C(PT-100)		
Overload Pressure	1.5 times of the rated pressure		
Accuracy ①	Pressure: $\pm 0.5\%$ F.S Temperature: $\pm 2\%$ F.S		
Stability	<0.5%F.S/year		
Working Temp	-20~85°C		
Storage Temp	-40~100°C		
Measured Medium	Gas or Liquid Compatible with 304 or 316L Stainless Steel, Fluorine rubber or Nitrile rubber		
Electrical Performance	2-wired	3-wired	4-wired
Output Signal	4~20mA	0.5~4.5V	RS-485
Power Supply	10~30VDC	4.75~5.25VDC	10~30VDC
Electrical Connection	DIN43650A(Big hirschmann), M12 waterproof outlet, GX12 aviation connector(three core / four core), M12 four core aviation connector		
Enclosure Protection	IP54、IP65		
Pressure Connection	G1/4、M12*1、M10*1、NPT1/4、G1/2、M20*1.5 etc.		
Pressure Form	Gauge pressure G / Absolute pressure A		
Certification	Safety explosion-proof type E, RoHS, EU electrical safety standard CE		

① Measured at 25°C with combined accuracy of linearity, repeatability and hysteresis.

DIMENSION (mm)



ORDER REF NO.

Code and Description										Remark		
LFT3100										Model		
	Temperature Range		-20~100℃							Measurement Range		
	Pressure Range		0~10kPa...70MPa									
			D1	D1=DIN43650A(Big Hirschmann)							Electrical Connection	
			M	M=M12(M12 waterproof cable outlet)								
			C3	C3=GX12 three core aviation connector								
			C4	C4=GX12 four core aviation connector								
			H	H=M12 four core aviation connector								
			G	G = G1/4		G2	G2 = G1/2				Pressure Connection	
			N	N = NPT1/4		M20	M20=M20*1.5					
			M10	M1 = M10*1		M12	M12=M12*1					
				A4	A4 = 4~20mA(2-wired)						Output Mode	
				V0S	V0S = 0.5~4.5V(3-wired)							
				RS	RS = RS-485							
				K	K = kPa		P	P = psi			Measurement Unit	
				M	M = MPa		B	B = Bar				
					0.5	0.5 = 0.5%F.S					Accuracy Grade	
						1	1.0 = 1m					Cable Length
						2	2.0 = 2m					
						3	3.0 = 3m					
LFT3100	0-100℃	0-60	M	G	A4	M	0.5	1.0			Selection Example	