LFT2030 High Temperature Resistant Pressure Transmitter

LEFOO 力夫

Product Features

■ The heat sink is fully integrated with the core, works normally at high temperatures

■ Adopt ASIC technology, digital compensation

■ High-performance silicon piezoresistive pressure oil-filled core

■ Excellent anti-corrosion and anti-wear performance

■ Strong anti-interference, good long-term stability

■ Threaded connection, easy to install

Overview

The LFT2030 high temperature pressure transmitter adopts a high-performance silicon piezoresistive pressure sensor,the internal dedicated integrated circuit converts the sensor's millivolt signal into a standard voltage, current or frequency signal,it can be directly connected with computer interface card, control instrument, intelligent instrument or PLC, etc. The distance transmission can adopt the current output mode. It has a small size, light weight, and all-stainless steel sealed structure, which can work in corrosive environments. The product is easy to install, has very good vibration and shock resistance, and is widely used in process control, aviation, aerospace, automotive, medical equipment, HVAC and other fields.

Technical Parameters

Measurement Range	-100kPa…0～10kPa…60MPa				
Overload Pressure	1.5 times the rated pressure				
Accuracy	±0.5％F.S				
Stability	<0.5％F.S/year				
Operating Temperature	-20～+85℃				
Medium Temperature	Maximum 180℃				
Measured Medium	Gas or liquid compatible with 304 and 316L stainless steel, fluorine rubber or nitrile rubber				
Electrical Performance	Two-wired system	Three-wired system			Four-wired system
Output Signal	4～20mA	0.5～4.5V	0～5V	0～10V	RS485
Power Supply	10～30VDC	4.75～5.25VDC	10～30VDC	12～30VDC	10～30VDC
Electrical Connections	DIN43650A（Big hessman connector）, M12 waterproof cable, M12 Aviation connector（Three core/four core）				
Enclosure Rating	IP65				
Pressure Interface	G1/4, NPT1/2, G1/2				
Pressure Form	Gauge Pressure G/Absolute Pressure A				
Certification Items	EU electrical safety standards CE				

Remark1：measured at 25℃, including the comprehensive accuracy of linearity, repeatability and hysteresis.

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Dimensions
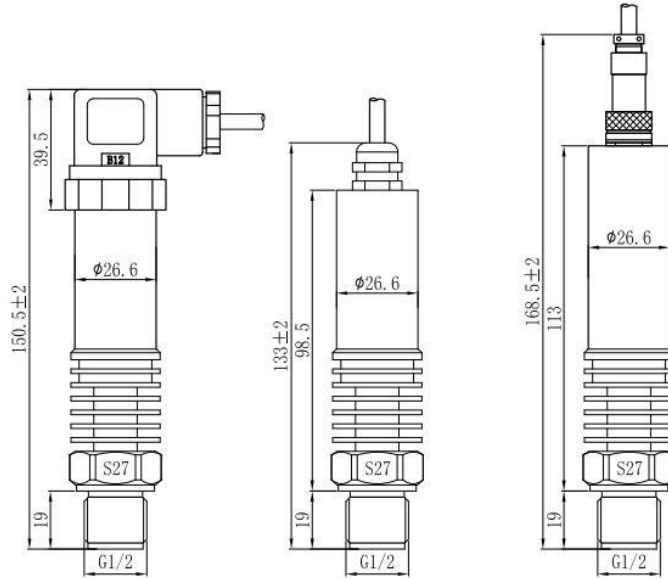
Electrical connections

Output Type	Outline Drawing	Foot position	Current type		Voltage type		RS485	
			Features	color	Features	color	Features	color
DIN43650A (Big Hessman)		1	Power+	Red	Power+	Red	Power+	Red
		2	Signal+	Black	Signal+	Green	A	Green
		3			Power -/signal	Black	B	White
		⊕					Power -/signal-	Black
M12×1.5 (Waterproof connector)			Power+	Red	Power+	Red	Power+	Red
			Signal+	Black	Power-/Signal-	Black	A	Green
					Signal+	Green	B	White
							Power-/Signal-	Black
M12×0.75 (Four core aviation plug)		1	Power+	Red	Power+	Red	Power+	Red
		2	Signal+	Black	Power-/Signal-	Black	A	Green
		3			Signal+	Green	B	White
		4					Power-/Signal-	Black
M12×0.75 (Three core aviation plug)		1	Power+	Red	Power+	Red		
		2	Signal+	Black	Power-/Signal-	Black		
		3			Signal+	Green		

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Selection Instructions

Code and Description									Remark
LFT2030									Model
	Range	-100kPa…0～10kPa…60MPa							Measuring Range
		A4	A4 = 4～20mA（Two-wired system）						
		V05	V05 = 0.5～4.5V（Three-wired system）						
		V0	V0 = 0～5V（Three-wired system）						Output Mode
		V10	V10 = 0～10V（Three-wired system）						
		RS	RS = RS-485 output（Four-wired system）						
			K	K = kpa		P	P = psi		Measuring Unit
			M	M = Mpa		B	B = bar		
				0.5	0.5 = 0.5％F.S　　1.0=1.0％F.S				Accuracy
					D1	D1 = DIN43650A（Big Hessman）			Electrical connections
					M	M = M12（M12 waterproof cable）			
					C3	Cable(C3=Three-core aviation connector,C4=Four-core aviation connector)			
						G	G = G1/4	G2	G2 = G1/2	Pressure interface
						N	N = NPT1/2			
							1.0	1.0 = 1m	Cable length
							2.0	2.0 = 2m	
							3.0	3.0 = 3m	
LFT2030	0-60	A4	B	1.0	D1	G	1.0		Selection example