LFT3000 Throw-in Type Liquid Level Sensor

LEFOO力夫

Features

- Adopt diffusion oil-filled silicon core
- High accuracy and high overload capacity
- Excellent anti-corrosion and anti-wear performance
- Built-in temperature compensation, support Modbus-485 communication protocol (intelligent type)
- The top stainless steel cap can be removable to prevent accidental damage of the contact diaphragm and easy to clean

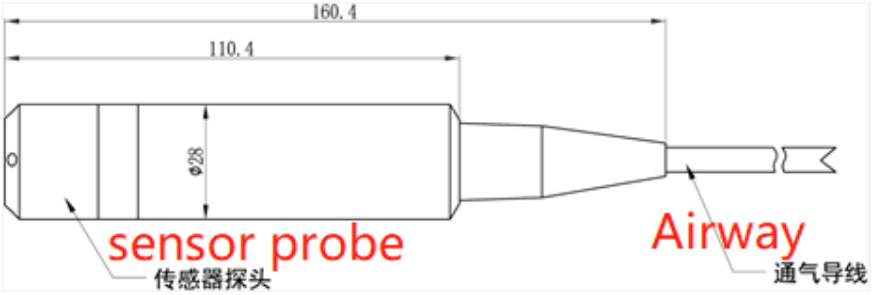
Description

This liquid water level transducer adopts a high-performance pressure sensor as the measuring element. Through this pressure sensor, the hydrostatic pressure that is proportional to the depth of the liquid level can be accurately measured, and it is converted into a standard signal output (current or voltage) by a special signal conditioning circuit. The linear correspondence between the output signal and the liquid depth is established to realize the accurate measurement of the liquid depth. Thus, it can be put into the liquid directly to measure the height of the liquid level from the end of the transmitter to the liquid surface. It is widely used for water level or liquid level measurement and control in the fields of petroleum, chemical industry, power plant, urban water supply, and hydrological exploration.

Specification

Measurement Range	0~200mH2O (Gauge Pressure)				
Overload Pressure	1.5 times full scales				
Burst Pressure	3.0 times full scales				
Accuracy	±0.5％F.S				
Stability	<0.5％F.S/Year				
Working Temperature	-20~+85℃/-40~+100℃（Customized）				
Compensated Temperature	-10~+70℃				
Storage Temperature	-40~+100℃				
Medium Compatibility	All corrosive medium compatible with stainless steel				
Output Mode	Two-wired	Three-wired			Four-wired
Output Signal	4~20mA	0-4.5V	0-5V	0-10V	RS-485
Power Supply	10~30VDC	5VDC	12~30VDC		
Electrical Connection	M12 Waterproof outlet				
Protection Grade	IPX8				
Pressure Connection	M20*1.5/ Throw-in Type				
Pressure Form	Gauge Pressure				
Certification	Safety explosion-proof type E, RoHS, EU electrical safety standards CE				

Dimension



Electrical Connection

Output type	Function	Wire Color	Pin-out		Output type	Function	Wire Color	Pin-out
Waterproof wire Current type	Power supply +	Red	1		Waterproof wire Voltage type	Power supply +	Red	1
	Pressure signal +	Black	2			Pressure signal +	Blue	2
						Power supply - / Pressure signal -	Black	3
Waterproof wire RS-485 type	Power supply +	Red	1					
	RS-485 +	Blue	2					
	RS-485 -	Yellow	3					
	Power supply -	Black	4					

Order Ref NO.

Code and Description			Notes
T3000			Model
	Range	0~200M	Measurement range
		A4 A4 = 4~20mA（Two-wired）	Output mode
		V05 V05 = 0.5~4.5V（Three-wired）	
		V0 V0 = 0~5V（Three-wired ）	
		V10 V10 = 0~10V（Three-wired ）	
		RS RS = RS-485 （Four-wired）	
		M M	Unit
		CM CM	
		0.5 0.5 = 0.5%F.S	Accuracy class
		M M = M12（M12 waterproof outlet）	Electrical connection
		Throw-in type	Pressure connection
		M20*1.5	
		1.0 1.0 = 1m	Cable length
		2.0 2.0 = 2m	
		3.0 3.0 = 3m	
T3000	0-50	V0 M 0.5 M Throw-in type 2.0	Model selection example