SMT3151TR submersible level transmitter

Description

The submersible level transmitter is based on the principle that the measured hydrostatic pressure is proportional to the liquid level. The diffused silicon or ceramic capacitive sensing element is used to convert the static pressure into an electrical signal. Temperature compensated and linearly corrected. Converted to 4-20mADC standard current signal output.

The sensor part of the submersible level transmitter can be directly put into the liquid, and the transmitter part can be fixed by flange or bracket, which is very convenient for installation and use.

Features:

Good stability, high precision, high performance/price ratio.

Directly put into the measured medium, installation and use is quite convenient.

Solid state mechanism, no moving parts, high reliability and long service life.

Wide range of temperature compensation with power supply reverse polarity protection and overload current limit protection.

Technical Performance

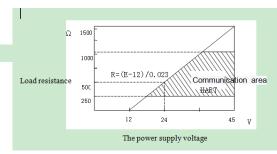
Use object: liquid level

Measuring range: See selection specification sheet

Output signal: 4~20mA dc. Output, superimposed HART protocol digital signal (two-wire system)

Power supply: External power supply 24V dc., power supply range 12V ~ 45V

Load characteristics:



Temperature range:

The electronic circuit board works at -40 to 85 ° C;

Sensitive components work at -40 ~ 85 ° C;

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Storage temperature -40 ~ 85 ° C;

With digital display $-25 \sim 75$ ° C (running);

-40 to 85 $^{\circ}$ C (no damage);

Relative humidity: 0 to 95%

Overpressure limit: The pressure transmitter that applies 2 to 5 times the maximum range is not

damaged.

Volume change: less than 0.16cm3

Resistance: The time constant is adjustable between 0.1 and 32.0s.

Start-up time: 3s, no need to warm up.

Housing material: stainless steel (1Cr18Ni9Ti)

Protection level: IP68

Application and type selection:

Mainly used in urban water supply and drainage, reservoirs, rivers, oceans, oil storage tanks and oil, chemical, power plant and other departments of the water level and its open container liquid measurement, which is the ideal liquid level transmission in the industrial process inspection and control system of industrial and mining enterprises meter.



Submersible level transmitter selection specification sheet

Model	Transmitter type
3151TR	Submersible level transmitter
Code	Scale range
005	$0 \sim 0.5 \text{m} (0 \sim 4.9 \text{kPa})$
050	$0\sim 5.0 \text{m}(0\sim 49)\text{kPa}$
500	0~50m(0~490)kPa
2000	0~200m (0~1.96) MPa
Code	Output form

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Е	Linear output 4-20mAdc	Linear output 4-20mAdc		
SF	Linear output 4-20mAdc+HART signal, Full function buttons on			
	site			
F	MODBUS-485 signal			
Code	Measurement method			
01	Ordinary sensor liquid connection method (cable type)			
02	Ceramic capacitive anti-blocking type (cable type)			
03	Gas pressure type (non-contact)			
05	Ordinary sensor liquid connection method (rod type)			
06	Ceramic capacitive anti-blocking type (rod type)			
Code	Istallation method			
A	No mounting bracket			
В	With mounting bracket			
С	Flange installation (specify flange specifications)			
Code	Structural materials			
	Input device	Isolation diaphragm		
22	316 stainless steel	316 stainless steel		
23	316 stainless steel	Hastelloy C		
24	316 stainless steel	Monel		
Code	Shell material	Conduit inlet dimensions		
A	Low copper aluminum alloy	M20×1.5		
	polyurethane coating			
В	Low copper aluminum alloy	1/2-14 NPT		
	polyurethane coating			
С	stainless steel	M20×1.5		
D	stainless steel	1/2-14 NPT		
0	No wiring housing			
Code	Optional parts			
M1	0∼100% Linear indicator			
M4	LCD Multi-function digital display			
Da	Flameproof ExdIIBT5Gb;(explosion-proof certificate no. :			
	CE16.1163)			
Fa	Fa Intrinsically safe ExiaIICT4 / T5 / T6Ga;(explosion			
	certificate no. : CE15.2354X)			

Selection example: 2088TR10E01A22Da 0~1m

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