HNL70-A

SUBMERSIBLE LEVEL SENSOR



PRODUCT INTRODUCTION

The HNL70-A immersion level sensor uses a high-performance diffused silicon piezoresistive pressure sensor as a measuring element to accurately measure the static pressure of the liquid, which is proportional to the liquid depth, and converts it into a standard (current or voltage) signal output through a signal conditioning circuit, establishing a linear correspondence between the output signal and the liquid depth, and realizing the measurement of the liquid depth.

The product has high precision, special gas-conducting cables, advanced process sealing technology, and good anti-leakage performance. It can be directly immersed in the liquid for a long time to measure the liquid height from the end of the transmitter to the liquid surface, and is easy to use. It is suitable for liquid level measurement and control in the fields of petroleum, chemical industry, power plants, urban water supply, and hydrological exploration.

PRODUCT FEATURES

1. Split type structure, the sensor part immersed in liquid is a fully sealed stainless steel structure
2. The electronic circuit housing is a cast aluminum structural component, installed in a convenient location for wiring, making it easy to connect
3. Imported sensor chip laser resistance compensation zero point and temperature performance
4. IMultiple protections, good anti leakage performance, strong anti-interference ability
5. Can add display header
6. Reverse power protection



TECHNICAL PARAMETER

SPORTS EVENT	NUMBERS
Measuring range	0~0.2~200m
Overload	Less than or equal to 1.5 times the rated range
Accuracy class	0.2、0.5
Long term stability	0.2% FS/year
Environmental Temperature impact	Within the specified working temperature, for every 10℃ change in ambient temperature, the output change is ≤±0.05% of the range, and the annual drift is≤± 0.3%
Operation temperature	-20~80℃
Storage temperature	-20~100℃
Protection grade	IP68 (sensor part), IP65 (wiring part)
Power supply	15~28VDC (recommended 24V DC)
Output	4~20mA DC (two-wire), 1~5V, 0.5~4.5V, 0~10V (three wire)
load resistance	≤(U-15)/0.02Ω
Relative humidity	95% non condensing
Material of process connectors	316 stainless steel, 0Cr18Ni9 stainless steel polyethylene gas conducting cable

HNL70-A SUBMERSIBLE LIQUID LEVEL SENSOR SELECTION TABLE

MODEL	SPECS	PARAMETER
HNL70-A		Submersible level sensor
Type of transmitter	A	Integrated 0~0.2~200m display cannot be added
	B	Split type 0~0.2~200m
	C	High temperature type 0~2~20m
	D	Rod type 0~0.2~6m
	E	Anti corrosion type: 0~0.5~20m
Sensor type	K	Diffuse silicon, 0~0.2~200m
	T	Ceramic piezoresistive, 0~3~200m
	D	Ceramic capacitor, 0~0.2~200m
Accuracy	2	Level 0.2
	5	Level 0.5
Output signal	A	4~20mA (two-wire system)
	B	4~20mA+Hart (two-wire system)
	C	RS485 (four wire system)
	D	1-5V (three wire system) cannot be equipped with a display
Output signal	E	0.5~4.5V (three wire system) cannot be equipped with a display
	F	0~10V (three wire system) cannot be equipped with a display
Display	G	LED
	H	LCD
	I	No display
Process connection	J	M20x1.5
	K	Flange (specify flange specifications when ordering)
	L	No process connection
	M	Negotiation (specify when ordering)
Range	1	0~0.3~200m (specify when ordering)