StrongFirst

STHPT604-B submersible fuel level sensor is a type of device used to measure the level of fuel in a storage tank, typically for use in vehicles, boats, or industrial equipment. The sensor is designed to be fully submerged in the fuel, allowing for accurate readings even when the tank is nearly empty. One of the key advantages of HPT604-B submersible fuel level sensors is their ability to provide accurate and reliable measurements, even in harsh environments. They are typically resistant to fuel and other chemicals, and can operate at a wide range of temperatures and pressures.

Pressure Range	0-0.05 Bar…..5 Bar / 0-0.5M……..50m fuel level Optional				
Overload	200% F.S.				
Burst Pressure	500% F.S.				
Accuracy	≤ ±0.5%F.S (Typical for 1m to 50m range); ≤ ±1.0%F.S(Typical for 0-1m range)				
Long-term Stability	≤ ±0.2% of span/year				
Working Temp.	-30-80℃(non-corrosive medium)				
Storage Temp	-40℃~80℃				
Temperature Compensation	0~50℃				
Medium compatible	Compatible with 304 Stainless Steel				
Electrical Wire	2 Wires	3 Wires			4 wires
Output	4-20mA	1-5V;0-5V	0-10V	0.5-4.5V non-ratiometric	RS485 Modbus RTU
Power Supply	7-30Vdc	8-30Vdc	13-30Vdc	5Vdc±5%	3.5-36Vdc
Insulate resistance	>100M Ω@50V				
Zero Temp. Drift	0.75%FS/℃(≤100kPa); 0.5%FS/℃(>100kPa)				
FS Temp. Drift	0.05%FS/℃(≤100kPa); 0.03%FS/℃(>100kPa)				
Electrical connection	Fixed cable and water proof IP68				
Response time	≤10 ms				
Pressure Type	Gauge pressure and absolute optional.				
Certificate	Exia IICT6, TUV RoHS and CE Certificate				
Blind spot	5mm				
Cable optional	PE Cable(Water Proof); PUR Cable(Oil/Fuel Proof); FEP Cable(Anti-Corrosive)				

Liquid level test report						
	Pressure test value	Density (kg/m3)	calculated value	Test Value	Error range (mm)	Accuracy (%FS)
0	0	840	0	0	0.00	0
1	0.147		175	174	1.00	0.03
2	0.294		350	349	1.00	0.03
3	0.441		525	524	1.00	0.03
4	0.588		700	699	1.00	0.03
5	0.735		875	874	1.00	0.03
6	0.882		1050	1049	1.00	0.03
7	1.029		1225	1224	1.00	0.03
8	1.176		1400	1399	1.00	0.03
9	1.323		1575	1574	1.00	0.03
10	1.47		1750	1749	1.00	0.03
11	1.617		1925	1924	1.00	0.03
12	1.764		2100	2099	1.00	0.03
13	1.911		2275	2274	1.00	0.03
14	2.058		2450	2449	1.00	0.03
15	2.205		2625	2624	1.00	0.03
16	2.352		2800	2799	1.00	0.03
17	2.499		2975	2974	1.00	0.03
18	2.646		3150	3149	1.00	0.03
19	2.793		3325	3324	1.00	0.03
20	2.94		3500	3499	1.00	0.03

Conclusion: The accuracy of liquid level test data at each point is 0.03% FS