

HPT604-FW LEVEL • DATASHEET•

Pressure Measurement 2. Level Measurement 3. Temperature Measurement
Flow Measurement 5. Display & Control Instruments
6.Wireless Monitoring System 7.Velocity Measurement



HPT604-FW

Submersible Water Detector and Fuel Level & Temperature Transducer



Features:

- > Accuracy: $\leq \pm 0.25\%$ F.S.
- Wide working temperature scope
- Advanced digital temperature compensation
- Excellent resistance against impact, overload, shock and erosion.
- Water detection, fuel level & temperature optional
- Impact resistance and disturbance

Applications:

- Fuel Tank Level Monitor Systems
- ➤Water detection Under the diesel
- ➤Water Under Oil and Fuel Level Monitor
- ➢Oil and Water Separation Location Detection
- ➢ Position Detector Of Silt Layer
- ➤Water Level Position Detector
- Fuel containers
- ➤And so on

Profiles

HPT604-FW is full sealed submersible level transducer. Users can select different versions to detect water presence, fuel level and fuel temperature. It is made by high stable and reliable piezo-resistive pressure sensor with water detect sensors and high accurate circuit board into the stainless steel housing. Integrated conductivity sensor and standard signal provide the user easy and convenient application in the local working place. The special cable connected with housing, can be immersed into the media for a long time.

HPT604-FW has compact size, light weight and good stability; it can be used for water alarm for the diesel tanks, water position and others hierarchy liquids level and position monitor.

• DATASHEET • LEVEL MEASUREMENT

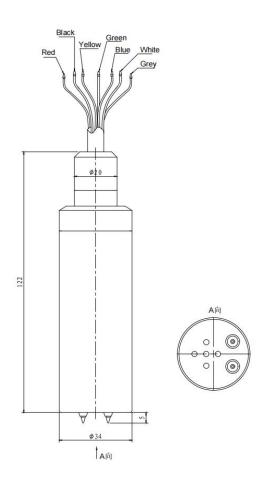
Specifications

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS									
Level range	0m~0.5m…20m Optional								
Pressure Type	Gauge/Relative pressure type(Typical); Absolute pressure Optional								
Overload	150%F.S Rated								
Water Existence alarm	ohm, or PNP switch, or NPN switch signal output optional.								
	Water detection sig	gnal: ohm signal	(When≥100 Ω	, it means that w	ater has been				
Output	detected, and 0 ohm means no water exists).								
Fuel Level Output	4~20mA	0~5V	RS485 Modbus RTU optional						
Electronic Wire	2 wires Loop 3 wires 3 wires			4 wires					
Power Supply	DC 730V	DC 830V	DC 1330V	DC 730V					
Polarity protection	Yes	Power sup	Power supply+&-; Signal A&B only						
Accuracy	0.5 0.25 0.1		0.1	%FS	By Customized				
Long-term Stability	0.15%FS/year								
Zero temp. drift	±0.02%FS/℃								
Sensitivity temp. drift	±0.02%FS/℃								
Temperature Compensation	0~50 $^\circ \mathrm{C}$ (Typical); -10~60 $^\circ \mathrm{C}$ (by customized)								
Medium Temp.	-3070 degree C								
Load Resistance	Current: (U-12)/0.02(^Ω)								
Max work current	(4-20mA) 21.8mA	(0-5/10V) !	(RS485 MODBUS	RTU) 10mA					
Max signal transfer distance	istance 1000m 200m 1000m								
Lighting&Surge protection	Surge: ±2000V								
Lighting a surge protection	Air conduction more than 8000V; external sensor more than 4000 Voltage protection.								
EMC Standard	EN61326-1:2013;EN	N61326-2-3:2013							
	EN61000-6-2:2005;I	EN61000-6-4:20	07+A1						
Intrinsic safety Certificate	Exia IICT6								
Water Proof Grade	IP68								



Dimensions and Drawing



Electronic Connections

	Signal output Wire color	4-20mA+100Ω	RS485+100Ω	0-5V/0-10V+100Ω	
	Red	V _{CC} +	V _{CC} +	V _{cc} +	
	Black	GND	GND	GND	
	Green	S _i +	RS485A	V _{out}	
	Blue	R	RS485B	R	
Ohm signal	Yellow	R	R	R	
	Grey	Shield/Earth	Shield/Earth	Shield/Earth	
	White		R		

	Signal output Wire color	4-20mA+PNP	RS485+PNP	0-5V/0-10V+PNP
	Red	V _{CC} +	V _{CC} +	V _{cc} +
	Black	GND	GND	GND
PNP signal	Green	S _i +	RS485A	V _{out}
_	Blue	PNP+	RS485B	PNP+
	Yellow	Shield/Earth	Shield/Earth	Shield/Earth
	White		PNP+	

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How to Order

			604	4FW	F	G	11	S11	E5E50	D1	N	1	003
Mode	el:	FW											Cable Length
essure &	Level U	nits —											X By Customized
Psi(M	lin:0.73F	si; Max	ax: 2bar) x:29Psi) lax:20m)										Accuracy 1 ≤±0.5%F.S (Typical) 2 ≤±0.25%F.S 3 ≤±0.1%F.S(by customized)
													Other Function (Optional)
	- age/Rela		essure typ (customi		versa)					N A		lard with water detection & fuel lev r detection, fuel level & fuel temp.
essure R													
	00.5 01.0	18 19	04.0 05.0										Measuring Medium
06 09 11 13 16	01.2 01.5 01.8 02.0 02.2 02.5 03.0	21 24 25 26 27 28 X	07.0 010 012 015 016 020 By Custo	omizeo	1							D1 D2 D3 D4 X	0.84g/cm3 density diesel 0.83g/cm3 density diesel 0.85g/cm3 density diesel 0.86g/cm3 density diesel By Customized
													Signal Output
												Fue	I/oil level signal
												E5 E6 E7 E11	
	Pow	ver sup	ply: —									X0	By Customized
	Pow	ver sup S11 S12	1 7-30) Vdc) Vdc								-	By Customized ter detection signal

HOLYKELL TECHNOLOGY COMPANY LIMITED

•Tel: +86 731 89873265 •Fax: +86 731 89873646