

# HPT604-FW LEVEL • DATASHEET•



# **HPT604-FW**

## Submersible Water Detector and Fuel Level & Temperature Transducer



#### Features:

- Accuracy: ≤±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.



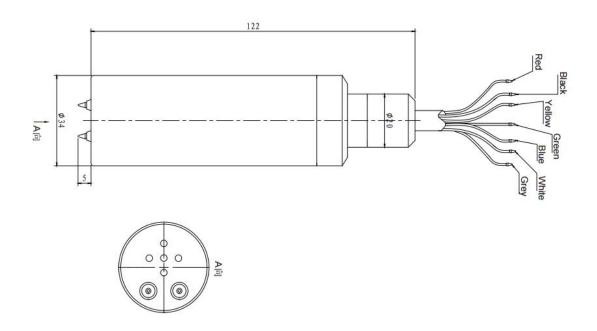
# **Specifications**

Ambient Temperature: 25°C (unless otherwise specified)

DADABATTERS							
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 signal: ohm signal (When $\geqslant$ 100 $$ $$ $$ , it means that water has been						
Output	detected, and 0 ohm means no water exists).						
Fuel Level Output	4~20mA	0~5V	0~10V	RS485 Modbus	RTU optional		
<b>Electrical Wire</b>	2 wires Loop	3 wires	3 wires	4 wires			
Power Supply	DC 730V	DC 830V	DC 1330V	DC 730V			
Polarity protection	Yes Power supply+&- only Power supply+&-; Signa			:-; Signal A&B only			
Accuracy	0.5	0.25	0.1	%FS	By Customized		
Long-term Stability	0.15%FS/year						
Zero temp. drift	$\pm$ 0.02%FS/ $^{\circ}$ C						
Sensitivity temp. drift	$\pm$ 0.02%FS/ $^{\circ}$ C						
<b>Temperature Compensation</b>	0~50°C (Typical); -10~60°C (by customized)						
Medium Temp.	-3070 degree C						
Load Resistance	Current: (U-12)/0.02( $\Omega$ )						
Max work current	(4-20mA) 21.8mA	(0-5/10V) 5	5mA	(RS485 MODBUS	RTU) 10mA		
Max signal transfer distance	1000m	200m		1000n	n		
Lightwing Course must estima	Surge: $\pm 2000$ V						
Lightning&Surge protection	Air conduction more than 8000V; external sensor more than 4000 Voltage protection.						
EMC Standard	EN61326-1:2013;EN61326-2-3:2013						
	EN61000-6-2:2005;EN61000-6-4:2007+A1						
Intrinsic safety Certificate	Exia IICT6						
Water Proof Grade	IP68						



# **Dimensions and Drawing**



## **Electrical Connections**

	Signal output Wire color	4-20mA+100Ω	RS485+100Ω	0-5V/0-10V+100Ω
	Red	U+	U+	U+
Ohm signal	Black	U-	U-	U-
	Green	lout(U-)	RS485A	Vout
	Blue	R	RS485B	R
	Yellow	R	R	R
	Grey	≟ Connect to	≟ Connect to	≟ Connect to earth
		earth ground	earth ground	ground
	White		R	

PNP signal	Signal output Wire color	4-20mA+PNP	RS485+PNP	0-5V/0-10V+PNP
	Red	U+	U+	U+
	Black	U-	U-	U-
	Green	Iout(U-)	RS485A	Vout
	Blue	PNP+	RS485B	PNP+
	Yellow	≟ Connect to	≟ Connect to	
		earth ground	earth ground	ground
	White		PNP+	



#### **How to Order**

Use the **bold** characters from the chart below to construct a product code

