

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:

- \triangleright 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.

• DATASHEET • LEVEL MEASUREMENT

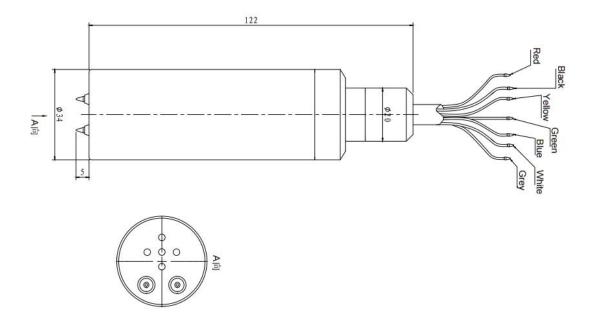
Specifications

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS											
Level range	0m~0.5m…20m 0	•									
Pressure Type	Gauge/Relative pre	essure type(Typi	cal); Absolute pr	essure Optional							
Overload	150%F.S Rated										
Water Existence alarm	ohm, or PNP switc	h, or NPN switch	n signal output op	otional.							
	Water detection signal: ohm signal (When \geq 100 $^{\Omega}$, 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						
Electrical Wire	3 wires	3 wires	3 wires	4 wires							
Power Supply	DC 730V	DC 830V	DC 1330V	DC 730V							
Polarity protection	Yes	Power sup	ply+&- only	Power supply+&-; Signal A&B only							
Accuracy	0.5	0.25	0.1	%FS	By Customized						
Long-term Stability	0.15%FS/year										
Zero temp. drift	±0.02%FS/°C										
Sensitivity temp. drift	±0.02%FS/℃										
Temperature Compensation	0~50 $^\circ C$ (Typical); -10~60 $^\circ C$ (by customized)										
Medium Temp.	ium Temp3070 degree C										
Load Resistance	Current: (U-12)/0.02(Ω)										
Max work current	(4-20mA) 21.8mA	(0-5/10V) 5	ōmA	(RS485 MODBUS RTU) 10mA							
Max signal transfer distance	1000m	200m		1000m							
	Surge: ±2000V										
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+	
	Black	U-	U-	U-	
	Green	lout(U-)	RS485A	Vout	
	Blue	R	RS485B	R	
Ohm signal	Yellow	R	R	R	
	Grey	≟ Connect to	🛓 Connect to	🛓 Connect to earth	
	Grey	earth ground	earth ground	ground	
	White		R		

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

+DLYKELL • DATASHEET • LEVEL MEASUREMENT

How to Order

				(504FW	F	G	11	S11	E5E50	D1	N	1	003	3	
Мо	del:	604F	w													Cable Length
essure	& Lev	vel Un	its —												003 X	3 meters By Customized
Psi	(Min:0).73Ps	i; Max	ax: 2ba <:29Psi ax:20r)									1 2 3	≤±0.	– Accuracy 5%F.S (Typical) 25%F.S 1%F.S(by customized)
															Other	Function (Optional)
	Gage/				type (ur omized)	iversa	1)					N A				vater detection & fuel lev n, fuel level & fuel temp.
essure	Rang	e —														
00 01	0(0		18 19	04. 05.										M		- Madison
03	0		21	07.									D1			ng Medium
06	0		24	010									D1 D2			cm3 density diesel cm3 density diesel
09 11	0 0		25 26	012 015									D3			cm3 density diesel
13	0		27	016									D4			cm3 density diesel
16 17	0		28 X	020 By Ci) ustomize	d							X	B	y Cust	omized
_,	0	5.0	A	by c											Signa	al Output
													Fue	el/oil	level	signal
													E5			nA (3 wires)
													E6			(3 wires)
													E7 E1			/ (3 wires) MODBUS RTU (4 wires)
		Powe	er sup	ply:									X0			stomized
			S1 1	1 7	-30 Vdc								Wa	ater d	letecti	on signal
			S12		8-30 Vdc								E5	0	Ohm	
			S4 3	3 1	.3-30 Vd	С							E5	1	PNP	
			Х	-	By Custo								E5		NPN	

HOLYKELL TECHNOLOGY COMPANY LIMITED

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