

TECHNOLOGY

HOLYKELL®

HPT604

LEVEL

• DATASHEET •

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

HPT604 (Type HE) Submersible Pressure Level Transducers



Features:

- Accuracy: $\leq \pm 0.5\% F.S$
- Wide working temperature scope
- Compact size
- Excellent resist impact, Shock and erosion
- Surge protection and RFI & EMI resistance
- Impact resistance and disturbance
- 1.5 times range standard overload
- 5 times range burst pressure
- CE approved

Applications:

- Industrial course testing and control
- Automatic testing and detection systems
- Water tank level measurement and control
- Fuel tank level measurement and control
- Laboratory equipment
- Building monitoring and control for water level.
- Various liquid tanks pressure measurement
- And so on

Profiles:

HPT604-HE economic type is full sealed submersible level transducer. It is made by building in high stable and reliable Germany imported FS piezo-resistive pressure sensor and high accurate circuit board into the stainless steel housing. Integrated construction and standard signal provide the user easy and convenient application in the local working place. The special cable connects with housing, can be immersed into the media for a long time.

HPT604-HE level transducer has compact smaller size, light weight and good stability; it can be used for water level tanks or others liquid measure and control of city water supply and drainage and hydrology, etc.



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LEVEL MEASUREMENT

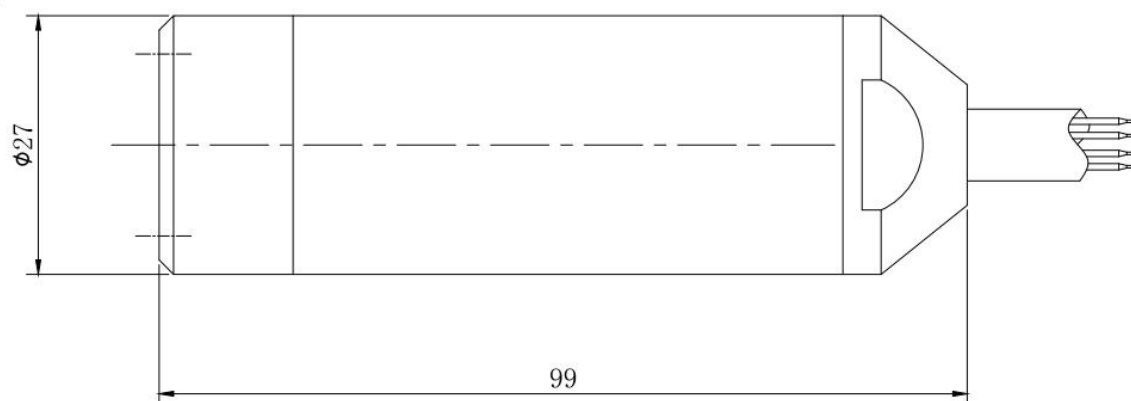
Specifications:

Ambient Temperature: 25°C (unless otherwise specified)

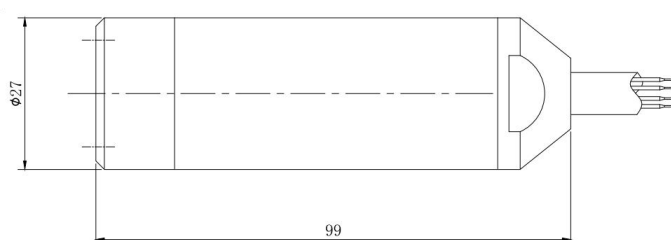
Parameters	MIN	TYP	MAX	UNITS	NOTES
Pressure range	0.2	0-0.3	2	bar	Optional
Level range	2	0-3	20	mH ₂ O	Optional
Pressure type	Gauge pressure				Optional
Overload	150%F.S			Rated	
Burst pressure	500%F.S			Rated	
Electrical wire	2 Wires		3 Wires		
Output	4-20mA		0.5-4.5V		
Power supply	10-30 V DC		5 V DC±5%		
Accuracy (Including linearity, hysteresis, repeatability)		0.5	0.25 By customized	%FS	@25°C
Long-term stability		±0.2		%FS/year	
Zero temp. drift	0.5	0.75	1	%FS/°C	
FS temp. drift	0.02	0.05	0.1	%FS/°C	
Temperature compensation		0~50		°C	
Working temp.		-25~70		°C	non-corrosive medium
Storage temp.		-30~80°C			
Insulation resistance		100		MΩ	50 V DC
Response time		100		ms	By Customized
Diameter of body		27		mm	
Medium compatible		Compatible with 316 Stainless Steel			By Customized
Certificate	CE Certificate				
EMC standard	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1				
Cable optional	Cable materials are PUR Cable(Diesel-proof)and PE Cable (Water-proof)				

Dimensions and Drawing:

Unit, mm



Electrical Connections



		Cable-out	
	Current	Red	U+
		Green	Iout(U-)
		Yellow	⊥ Connect to earth ground
	Voltage	Red	U+
		Green	Vout
		Yellow	⊥ Connect to earth ground
		Black	U-

How to Order

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

	604HE	H	G	19	S6	E8	CW	N	1	003	
Model											Cable Length
604HE	Economic Compact Type									003	3 Meters
Pressure & Level Units										X	By customized
H	m H2O										Accuracy
B	Bar									1	≤±0.5%FS (Typical)
P	Psi									2	≤±0.25%FS (by customized)
F	m Fuel										
Pressure type											Others Function (Optional)
G	Gauge/Relative pressure type (universal)									N	Standard Type (with 316 SS filter)
A	Absolute pressure (customized)										
Pressure Range											Measuring Medium
11	0...2	20	0...6						CW		Water
16	0...2.5	22	0...8						D1		0.84g/cm3 density diesel
17	0...3	23	0...10						D2		0.83g/cm3 density diesel
18	0...4	27	0...20						D3		0.85g/cm3 density diesel
19	0...5	X	By Customized						D4		0.86g/cm3 density diesel
									X		By Customized
Power supply											Signal Output
S6	5 V DC									E5	4-20mA (2 wires)
S17	10-30 V DC									E21	0.5-4.5V non-ratiometric(by default, 3 wires)
X	By Customized									E8	0.5-4.5V ratiometric (by customized, 3 wires)
										X	By Customized

Example of a complete PN: 604HEHG19S6E8CWN1003

(Model: HPT604-HE, water level range 0-5m, gauge type, 5 V DC supply, 0.5-4.5V ratiometric, standard type, 0.5%F.S accuracy with 3 meters cable)