

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:  $\leq \pm 1\%$  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.



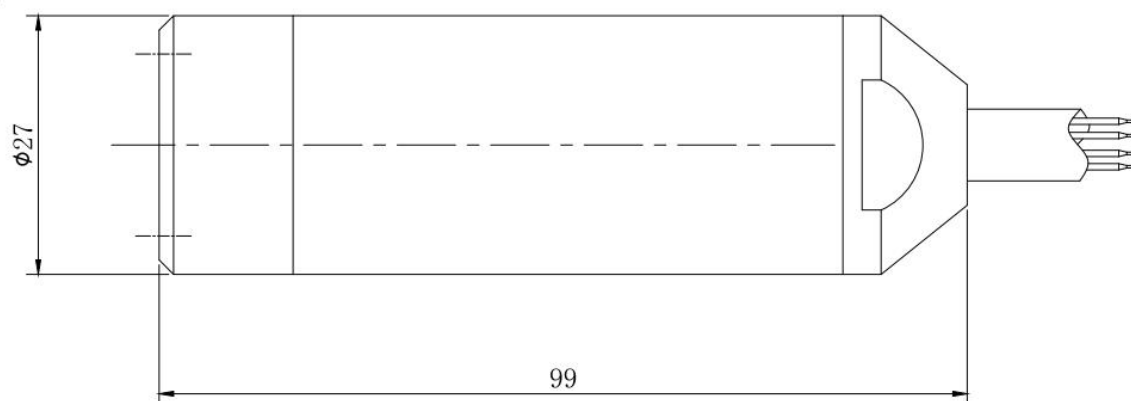
### Specifications:

Ambient Temperature: 25°C (unless otherwise specified)

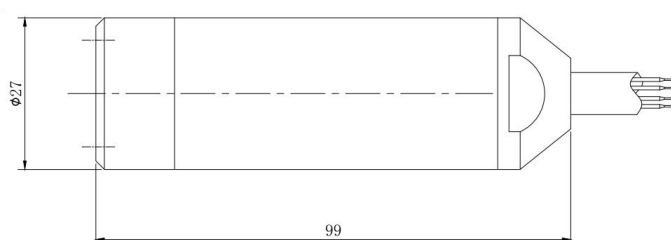
Parameters	MIN	TYP	MAX	UNITS	NOTES
Pressure range	0.2	0-0.3	2	bar	Optional
Level range	2	0-3	20	mH <sub>2</sub> O	Optional
Pressure type	Gauge pressure				Optional
Overload	150%F.S			Rated	
Burst pressure	500%F.S			Rated	
Electrical wire	2 Wires		3 Wires		
Output	4-20mA		0.5-4.5V		
Power supply	10-30 V DC		5 V DC±5%		
Accuracy (Including linearity, hysteresis, repeatability)	1	0.5	0.25	%FS	@25°C By Customized
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

	<b>604HE</b>	<b>H</b>	<b>G</b>	<b>19</b>	<b>S6</b>	<b>E8</b>	<b>CW</b>	<b>N</b>	<b>0</b>	<b>003</b>	
Model											Cable Length
<b>604HE</b>	Economic Compact Type									<b>003</b>	3 Meters
Pressure & Level Units										<b>X</b>	By customized
<b>H</b>	m H2O										Accuracy
<b>B</b>	Bar									<b>0</b>	≤±1.0%FS (Typical)
<b>P</b>	Psi									<b>1</b>	≤±0.5%FS (by customized)
<b>F</b>	m Fuel									<b>2</b>	≤±0.25%FS (by customized)
Pressure type											Others Function (Optional)
<b>G</b>	Gauge/Relative pressure type (universal)									<b>N</b>	Standard Type (with 316 SS filter)
<b>A</b>	Absolute pressure (customized)										Measuring Medium
Pressure Range										<b>CW</b>	Water
<b>11</b>	0...2	<b>20</b>	0...6							<b>D1</b>	0.84g/cm3 density diesel
<b>16</b>	0...2.5	<b>22</b>	0...8							<b>D2</b>	0.83g/cm3 density diesel
<b>17</b>	0...3	<b>23</b>	0...10							<b>D3</b>	0.85g/cm3 density diesel
<b>18</b>	0...4	<b>27</b>	0...20							<b>D4</b>	0.86g/cm3 density diesel
<b>19</b>	0...5	<b>X</b>	By Customized							<b>X</b>	By Customized
Power supply											Signal Output
<b>S6</b>	5 V DC									<b>E5</b>	4-20mA (2 wires)
<b>S17</b>	10-30 V DC									<b>E21</b>	0.5-4.5V non-ratiometric(by default, 3 wires)
<b>X</b>	By Customized									<b>E8</b>	0.5-4.5V ratiometric (by customized, 3 wires)
										<b>X</b>	By Customized

Example of a complete PN: 604HEG19S6E8CWN10003

(Model: HPT604-HE, water level range 0-5m, gauge type, 5Vdc supply, 0.5-4.5V ratiometric, standard type, 1%F.S accuracy with 3 meters cable)