

TECHNOLOGY

**HOLYKELL®**

**HPT604-H**  
**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<sub>(H Type)</sub> 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-H 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-H 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.



# • DATASHEET •

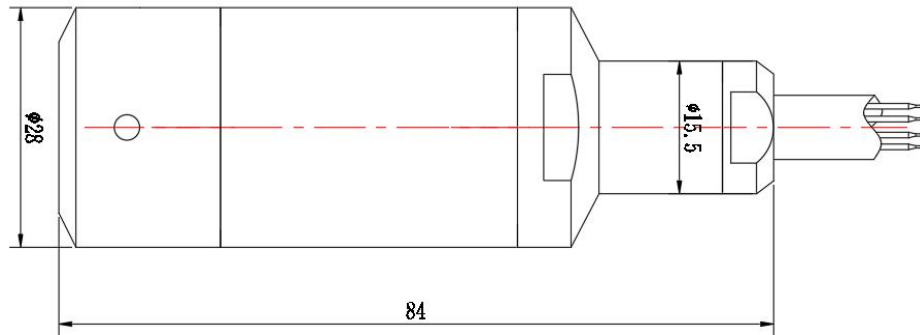
## LEVEL MEASUREMENT

### Specifications:

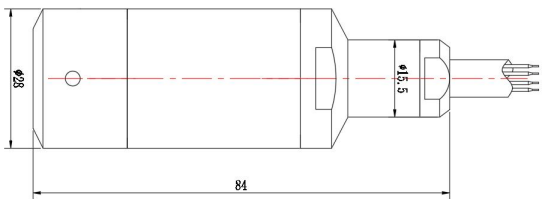
Ambient Temperature: 25°C (unless otherwise specified)

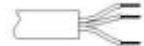
Parameters	MIN	TYP	MAX	UNITS	NOTES
Pressure Range	0.2	0-0.3	2	bar	Optional
Level range	2	0-3	20	nH2O	Optional
Pressure Type		Gauge pressure			Optional
Overload		150%F.S		Rated	
Burst Pressure		500%F.S		Rated	
Electronic Wire			3 Wires		
Output		0.5-4.5(Typical)	0.5-4.5V ratiometric		
Power Supply		5Vdc±5%	5Vdc±5%		
Electronic Wire		3+1		wire	
Accuracy (Included Linearity Hysteresis Repeatability)	1	0.5	0.25	%FS	@25 degree 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		15-40		°C	
Working Temp		-40-80		°C	non-corrosive medium
Storage Temp		-40°C~80°C(Nitrile rubber sealing ring); -20°C~80°C(fluororubber rubber sealing ring)			
Insulation Resistance		100		MΩ	50Vdc
Response time		10		ms	By Customized
Diameter of body		27		mm	
Medium compatible		Compatible with SUS304 (Typical) or 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:**



**Electronic Connections**



	Directly sealed cable		
	Voltage	Red	V <sub>cc+</sub>
		Green	V <sub>out</sub>
		Yellow	Shield
Black		GND	

**How to Order**

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

**604H H G 19 S6 E8 CW N 0 003**

<p>Model ————— <b>604H</b> Economic Compact Type</p> <p>Pressure &amp; Level Units ————— <b>H</b></p> <p><b>H</b> m H<sub>2</sub>O  <b>B</b> Bar  <b>P</b> Psi  <b>F</b> m Fuel</p> <p>Pressure type ————— <b>G</b></p> <p><b>G</b> Gauge/Relative pressure type (universal)  <b>A</b> Absolute pressure (customized)</p> <p>Pressure Range ————— <b>19</b></p> <table border="0"> <tr> <td><b>11</b> 0...2</td> <td><b>20</b> 0...6</td> </tr> <tr> <td><b>16</b> 0...2.5</td> <td><b>22</b> 0...8</td> </tr> <tr> <td><b>17</b> 0...3</td> <td><b>23</b> 0...10</td> </tr> <tr> <td><b>18</b> 0...4</td> <td><b>27</b> 0...20</td> </tr> <tr> <td><b>19</b> 0...5</td> <td><b>X</b> By Customized</td> </tr> </table> <p>Power supply ————— <b>S6</b></p> <p><b>S6</b> 5Vdc  <b>X</b> By Customized</p>	<b>11</b> 0...2	<b>20</b> 0...6	<b>16</b> 0...2.5	<b>22</b> 0...8	<b>17</b> 0...3	<b>23</b> 0...10	<b>18</b> 0...4	<b>27</b> 0...20	<b>19</b> 0...5	<b>X</b> By Customized	<p>Cable Length ————— <b>003</b></p> <p><b>003</b> 3 Meters  <b>X</b> By customized</p> <p>Accuracy ————— <b>0</b></p> <p><b>0</b> ≤±1.0%FS (Typical)  <b>1</b> ≤±0.5%FS (by customized)  <b>2</b> ≤±0.25%FS (by customized)</p> <p>Others Function (Optional) ————— <b>N</b></p> <p><b>N</b> Standard Type (with nylon filter)  <b>S</b> Custom Type (with 304ss filter)</p> <p>Measuring Medium ————— <b>CW</b></p> <p><b>CW</b> Water  <b>D1</b> 0.84g/cm<sup>3</sup> density diesel  <b>D2</b> 0.83g/cm<sup>3</sup> density diesel  <b>D3</b> 0.85g/cm<sup>3</sup> density diesel  <b>D4</b> 0.86g/cm<sup>3</sup> density diesel  <b>X</b> By Customized</p> <p>Signal Output ————— <b>E8</b></p> <p><b>E8</b> 0.5-4.5V Ratiometric (3 wires)  <b>E21</b> 0.5-4.5 V Non-Ratiometric (3 wires)  <b>X</b> By Customized</p>
<b>11</b> 0...2	<b>20</b> 0...6										
<b>16</b> 0...2.5	<b>22</b> 0...8										
<b>17</b> 0...3	<b>23</b> 0...10										
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<b>19</b> 0...5	<b>X</b> By Customized										