

TECHNOLOGY

HOLYKELL®

HPT604-B

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

Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT604 (B Type)				
Pressure Range	0-0.05 Bar.....5 Bar / 0-0.5M.....50m fuel level Optional (See P1 page description)				
Overload	200% F.S.				
Burst Pressure	500% F.S.				
Accuracy	≤ ±0.5%F.S (Typical for 1m to 50m range); ≤ ±1.0%F.S(Typical for 0-1m range) @25 degree C				
(Linearity Hysteresis Repeatability)	Including non-lin., rep. and hys.				
Long-term Stability	≤ ±0.2% of span/year				
Working Temp.	-30-80°C (non-corrosive medium)				
Storage Temp	-40°C~80°C				
Temperature Compensation	0~50°C				
Medium compatible	Compatible with 304 Stainless Steel				
Electrical Wire	2 Wires		3 Wires		4 wires
Output	4-20mA	1-5V;0-5V	0-10V	0.5-4.5V non-ratiometric	RS485 Modbus RTU
Power Supply	7-30Vdc	8-30Vdc	13-30Vdc	5Vdc±5%	3.5-36Vdc
Polarity protection	Yes Power wires-Yes; Signal Wires-Yes, Power&Signal Wires-No!				
Insulate resistance	> 100M Ω@50V				
Zero Temp. Drift	0.75%FS/°C (≤100kPa) ; 0.5%FS/°C (>100kPa)				
FS Temp. Drift	0.05%FS/°C (≤100kPa) ; 0.03%FS/°C (>100kPa)				
Electrical connection	Fixed cable and water proof IP68				
Response time	≤10 ms				
Pressure Type	Gauge pressure and absolute optional.				
Certificate	Exia IICT6, TUV RoHS and CE Certificate				
EMC Standard	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1				
Lightning Protection (optional functions)	Air conduction more than 8000V; external sensor more than 4000 Voltage protection.				
Blind spot	5mm				
Cable optional	Cable materials are optional according request, we offer 3 type special cable as follow: PE Cable (Water Proof) ; PUR Cable (Oil/Fuel Proof) ; FEP Cable (Anti-Corrosive)				

Dimensions and Drawing



Unit: mm

Electrical Connections



	Direct cable outlet		
	Current	Red	V _{cc} +
		Green	S _r +
		Yellow	Shield
	Voltage	Red	V _{cc} +
		Green	V _{out}
		Yellow	Shield
		Black	GND
	RS485 RTU Modbus	Red	V _{cc} +
		Black	GND
		Green	RS485A
		Blue	RS485B
		Yellow	Shield

How to Order

1. Range Selection Table:

00	0~0.5	01	0~1.0	02	0~1.1	03	0~1.2	04	0~1.3	05	0~1.4	06	0~1.5	07	0~1.6	08	0~1.7
09	0~1.8	10	0~1.9	11	0~2	12	0~2.1	13	0~2.2	14	0~2.3	15	0~2.4	16	0~2.5	17	0~3
18	0~4	19	0~5	20	0~6	21	0~7	22	0~8	23	0~10	24	0~12	25	0~15	26	0~16
27	0~20	28	0~25	29	0~30	30	0~35	31	0~40	32	0~50	33	By Customized				

Kindly according to your application select suitable range code , Example: code 19 = 5 .









Unit of measure select on the Part Number Selection Table . Example: Code F=m Fuel , that's 5m Fuel

2. Part Number Selection Table:

604B Selection Type	11	F	G	E5	S11	D3	N	1	003
Range	Range reference to range selection table code								
Pressure & Level Units	F=m Fuel (Min: 1 m Fuel; Max:50 m Fuel) B=bar (Min: 0.1bar Max: 5bar) P=Psi (Min:1Psi; Max:72.5Psi) K= kPa (Min:10 kPa; Max:500 kPa)								
Pressure type	G=Gauge/Relative pressure type (universal) A=Absolute pressure (customized)								
Signal Output	E5=4-20mA(2 wires) E6=0-5V(3 wires) E7=0-10V(3 wires) E8=0.5-4.5V(3 wires) E0=1-5V(3 wires) E11=RS485(MODBUS) X= By Customized								
Power Supply	S6=5Vdc S11=7-30Vdc S12=8-30Vdc S42=3.5-36Vdc S17=10-30Vdc S43=13-30Vdc X= By Customized								
Measuring Medium	CW=Water D1=0.84g/cm3 density diesel D2=0.83g/cm3 density diesel D3=0.85g/cm3 density diesel D4=0.86g/cm3 density diesel G0=0.72g/cm3 density gasoline G2=0.725g/cm3 density gasoline G5=0.737g/cm3 density gasoline X=Others Liquid and Density By Customized								
Others Function (Optional)	N=Standard Type (with short filter) MFC= POM material cap AW=Additional weight FC=FEP Cable								
Accuracy	0=1%F.S. 1=0.5%F.S 2=0.25%F.S (by customized)								
Cable length	001= Cable 1m 002= Cable 2m 003= Cable 3m X= By Customized								

Accessories

(Notes: Please purchase separately. For the price of accessories, please contact our sales.)

	Description	Order number
	Liquid level display control device With all kinds of liquid level sensor, measurement according to liquid level, and according to the setting of the container structure and size and the density of liquid, calculation, display liquid volume or quality.	0008
	Flange 4 holes 316 SS flange, size can be customized	0001
	Locking flange For locking cables, made of aluminum alloy	0029
	Conduit adapter 316 SS 1/2" NPT male cable conduit adapter. Must be factory installed.	0011
	Terminal box The terminal box, with IP67 ingress protection and watertight ventilation element, provides a moisture-free electrical termination for the submersible pressure transmitter. It should be mounted in dry environment or directly in the switch cabinet.	0003
	Additional weight The additional weight increases the dead weight of the submersible pressure transmitter. It simplifies the lowering into monitoring wells, narrow shafts and deep wells. It effectively reduces negative environmental influences on the measuring result from the measured medium (e.g. turbulent flow). Stainless steel 316L, approx. 1.46kg, height (H) 70 mm	0009
	Adapter Converter It is able to convert RS-232 signal to RS-485 balanced differential signal and extend the communication distance to 1.2km. It uses a particular pump to gain power from RS-232 signal (RTS, DTR, TXD) without initializing the RS-232 series interface. This interface converter does this without requiring any AC or DC power.	0005
	Surge electrostatic protector Anti-surge $\pm 2000V/\pm 4000V$, anti-static 18KV, suitable for protecting 4-20ma and RS485 circuits.	0014

Ordering information

Model / Measuring range / Output signal / Temperature measurement / Cable material / Cable length / Case / Lightning protection / Accessories