



HPT 604-BM

Fuel Tank Outside Bottom Mounting Pressure Level Transducer

Applications

- · Diesel Level Measurement on moving tanks
- · Diesel Level Measurement on static tanks
- · Petrol Level Measurement on moving tanks
- · Oil Level Measurement on static tanks
- · Fuel Level Measurement on different outside tank bottom

Features

- Imported GE pressure cells, 0.5%F.S.
- · Survives Harsh Environments
- · EMI/RFI Protection
- · Custom level ranges from 1m to 20m
- · Unique impurities filter mesh design
- · IP68 full sealed plastic water proof design
- · CE, RoHS and ATEX Approved
- · Custom PU or FEP cable lengths
- · Resolution up to 0.1mm (range less than 6m)













Profiles

HPT604-BM is a high performance tank bottom outside mounting pressure level transducer that is installed under the fuel tank drain port, no extra opening required. It is suitable for oil level measurement of different types of fuels, no matter static and dynamic mobile tanks.

It adopts the U.S.A. imported GE core. With a filter device equipped, there is no clogging and cleaning concern. And it features simple installation and disassembly, easy maintenance and use.

HPT604-BM incorporates lightning and surge protection utilizing dual arrestor technology to assure under the input and output short-circuit conditions to prevent reverse connection.

Holykell can provide a cost effective solution for level monitoring for a variety of applications. Welcome your inquiry.

Measuring range					
bar	0 to 0.05 0 to 2				
inWC	0 to 20 0 to 1000				
psi	0 to 1.0 0 to72.5				
mH2O	0 to 0.5 0 to 20				

When choosing the FEP cable, only measuring ranges up to 0 ... 2 bar, 0 ... 30 psi and 0 ... 20 mH2O are available. The given measuring ranges are also available in mbar, kPa and MPa

Materials

Wetted Parts	Standard	Optional
Case and sensor	Stainless steel 304	Ceramic
Protection cap	Stainless steel 304	NA
Cable	PUR	FEP

Mounting position

Calibrated in vertical mounting position with pressure connection facing downwards.



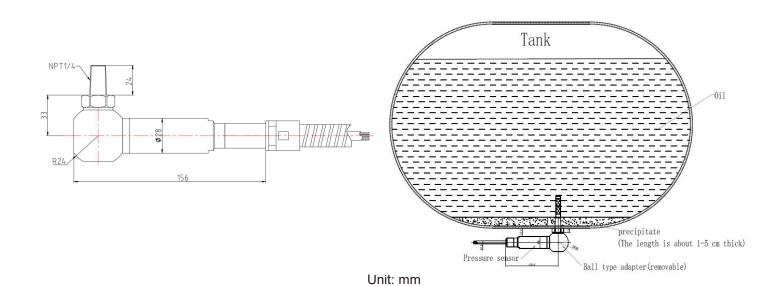
Specifications

Ambient Temperature: 25°C (unless specified)

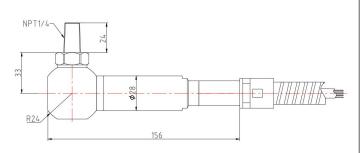
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Parameter	HPT604 (BM Type)							
Pressure Range	0-0.1bar2 bar / 0-1m20m fuel level Optional (See P1 page description)							
Overload	150% F.S.							
Burst Pressure	300% F.S.							
Accuracy	≤ ±0.5%F.S (≥2m level range and between 0-50 degree C); ≤ ±1.0%F.S (0.5m≤Level Range<2m level range and between0-50 degree C)							
(Linearity Hysteresis	Including non-lin., rep	. and hys.						
Repeatability)	Optional							
Long-term Stability	≤ ±0.1 % of span/year							
Working Temp.	-40-80°C (non-corrosiv	e medium)						
Storage Temp.	-40℃~80℃(Nitrile rub	ber sealing ring); -20°	C~80°C (fluororubber rubber sealing ring)					
Temperature Compensation	0-50℃ (Range<100k	Pa); -10℃~80℃(Ran	ge≥100kP)					
Medium compatible	Compatible with SUS	304 Stainless Steel						
Electrical Wire	2 Wires	3 Wires	4 wires					
Output	4-20mA	0-5V	RS485 Modbus RTU					
Power Supply	7-30Vdc	8-30Vdc	3.5-36Vdc					
Polarity protection	Available for signal wi	res or Power wires ead	ch other reverse, unavailable signal and power wire reverse!					
Insulate resistance	> 100M Ω@100V							
Zero Temp. Drift	0.5%FS/℃ (≤100kPa) ; 0.25%FS/℃ (>1	00kPa)					
FS Temp. Drift	0.02%FS/°C (≤100kP	a) ; 0.01%FS/℃ (>	100kPa)					
Electrical connection	Fixed cable with venter	ed tube and water proc	of IP68					
Response time	≤10ms (digital signal ≤	(200ms)						
Data overtime interval	≥20ms							
Material of Housing	304 Stainless Steel							
Blind Zone of Probe	30 mm							
Pressure Type	Gauge pressure							
Certificate	Exia IICT6, TUV RoH	S and CE Certificate						
EMC Standard	EN 61326-1:2013; EN EN 61000-6-2:2005; E							
Lightning Protection (optional functions)	Surge ±2000V, Air co	nduction ±8000V; con	tact discharge ±4000V protection.					
Cable optional			est, we offer 3 type special cable as follow: el Proof) ; FEP Cable (Anti-Corrosive for gasoline)					



Dimensions and Drawing



Electrical Connections



	Direct seale	d cable			
		Red	U+		
	Current	Green	lout(U-)		
		Yellow	≟ Connect to earth ground		
		Red	U+		
12 m 12 m 12 m 12 m	Voltage	Green	Vout		
		Yellow	≟ Connect to earth ground		
		Black	U-		
		Red	U+		
277	Black		U-		
	RS485 RTU	Green	RS485A		
	Modbus	Blue	RS485B		
		Yellow	≟ Connect to earth ground		



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											Х		E	By Customiz	zed	

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:

604BM Selection Type	00	F	G	E5	S11	D1	N	1	003
Range	Range reference to range selection table code								
Pressure & Level Units	F=m Fuel (Min: 0.5 m; Max:20 m B=bar (Min: 0.05bar Max: 2b P=Psi (Min:1Psi; Max:15Psi) K= kPa (Min:5 kPa; Max:200 kF	ar)							
Pressure type	G=Gauge/Relative pressure typ A=Absolute pressure (customiz								
Signal Output		:0-5V(3 wires) By Customized	I						
Power Supply	S11=7-30Vdc S12= S42=3.5-36Vdc X= By Customized	-8-30Vdc							
Measuring Medium	CW= Water D1=0.84g/cr D3=0.85g/cm3 density diesel X=Others liquid and density b		sel D .86g/cm3 d		cm3 density o	diesel			
Others Function (Optional)	N=Standard Type 2= G	E high perform	nance cells	3					
Accuracy	0=1.0%F.S typical 1=0.5	%F.S optional	2=0.:	25%F.S b	y customized				
Cable length	001= Cable 1M 002= Cab	ole 2M 003	= Cable 3l	M X=	By customize	ed			

Example P/N: 604BM00FGE5S11D1N1003



Accessories

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

	Description Description	Order number
10121 1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	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
	Locking flange For locking cables, made of aluminum alloy	0029
	IP68 rated deep water level cable extender Mainly used to extend the cable of deep water level transmitter. Users can rewire it locally. It can work continuously for more than 10 years 500 meters underwater, and the safe tensile strength of the cables at both ends can reach 200N	0028
	Desiccant drying cartridge Desiccant Pack installed on Vented Transducer cable. The cartridge will have to be field replaced as site environment requires.	0010
	Terminal box The terminal box, with IP 67 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
KOB KOB	Adapter Converter It is able to convert RS-232 signal to RS-485 balanced differential signal and extend the communication distance to 1.2km.lt 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 Protection Box Surge electrostatic protector Anti-surge ±2000V/±4000V, anti-static 18KV, suitable for protecting 4-20ma and RS485 circuits.	0014

Ordering information

Model / Measuring range / Pressure type/Output signal /Power supply/ medium / others option / Accuracy/Cable length /Accessories

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