



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 \dots 2 bar, 0 \dots 30 psi and 0 \dots 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.



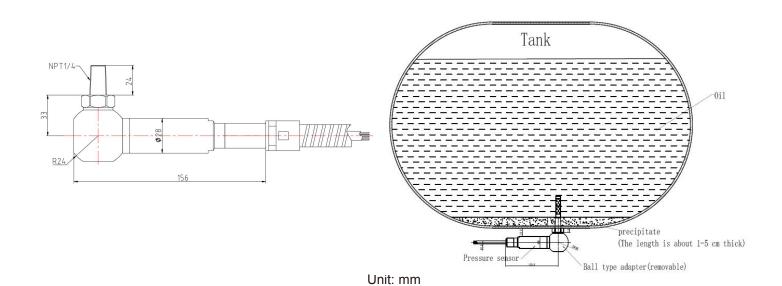
Specifications

Ambient Temperature: 25°C (unless specified)

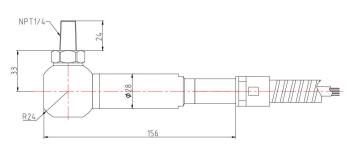
Demonstra	LIDTO04 (Date To 1)							
Parameter	HPT604 (BM Type)							
Pressure Range	0-0.1bar2 bar / 0-1	m20m fuel level Optional (See P1 page description)						
Overload	150% F.S.							
Burst Pressure	300% F.S.							
Accuracy	≤ ±0.5%F.S (≥2m level range and between 0-50 degree C); ≤ ±1.0%F.S (0.5m≤Level Range<2m level range and between0-50 degree C)							
(Linearity Hysteresis	Including non-lin., rep.	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°C~80°C (Nitrile rub	ber sealing ring); -20 $^{\circ}$ C ~80 $^{\circ}$ C (fluororubber rubber sealing ring)						
Temperature Compensation	0-50℃ (Range<100k	Pa); -10℃~80℃(Range≥100kP)						
Medium compatible	Compatible with SUS3	304 Stainless Steel						
Electronic 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 wir	res or Power wires each other reverse, unavailable signal and	power wire reverse!					
Insulate resistance	> 100M Ω@100V							
Zero Temp. Drift	0.5%FS/℃ (≤100kPa); 0.25%FS/℃(>100kPa)						
FS Temp. Drift	0.02%FS/°C (≤100kP	a);0.01%FS/℃(>100kPa)						
Electronic connection	Fixed cable with vente	d tube and water proof 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 RoHS	S and CE Certificate						
EMC Standard	EN 61326-1:2013; EN EN 61000-6-2:2005; E							
Lightning Protection (optional functions)		nduction ±8000V; contact discharge ±4000V protection.						
Cable optional	-	otional according request, we offer 3 type special cable as follo of); PU Cable(Diesel Proof); FEP Cable(Anti-Corrosive f						



Dimensions and Drawing



Electronic Connections



	Directly seal	ed cable	
		Red	V _{cc} +
	Current	Green	S _i +
		Yellow	Shield
		Red	V _{cc} +
5	Voltage	Green	V_{out}
		Yellow	Shield
		Black	GND
		Red	V _{cc} +
104401	RS485	Black	GND
	RTU	Green	RS485A
	Modbus	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	2	24	0~12	25	0~15	26	0~16
27	0~20												X 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:

604BM Selection Type	00	F	G	E5	S11	D1	N	1
Range	Range reference to range selection table code							
Pressure & Level Units	F=m Fuel (Min: 0.5 m; Max:20 r B=bar (Min: 0.05bar Max: 2br 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	E5=4-20mA(2 wires)	:0-5V(3 wires) By Customized						
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 by			D2=0.83g/c density die	cm3 density sel	diesel		
Others Function (Optional)	N=Standard Type 2= G	E high perform	nance cel	ls				
Accuracy	0=1.0%F.S typical 1=0.5	%F.S optional	2=0	.25%F.S by	y customize	d		
Cable length	001= Cable 1M 002= Cab	le 2M 003	= Cable :	BM X=	By customiz	zed		

Example P/N: 604BM00FGE5S11D1N1003



Accessories

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

	Description	Order number
The second secon	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 3 holes 304 stainless steel flange 70mm diameter	0001 0030
	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 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
	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
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.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
D TO	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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