DATASHEET

HOLYKELL TECHNOLOGY COMPANY LIMITED

HPT604-GT Generator Lower Fuel Tank Application Submersible Fuel Level Transducer



I . Profiles

HPT604-GT series digital pressure level transducer is highly stable and reliable. It uses the U.S.A. imported GE pressure core 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 series digital pressure level transducers are a high accuracy digital and intellectual product development by HOLYKELL to meet the market needs of worldwide. HPT604-GT designed incorporating with monolithic computer technology and sensor digital conversion technology, which core component adopts 24-bit AD MCU micro-processor to ensure high quality of the transducer relaying on its strong function and high speed operation capacity. The overall designed framework is to meet the requirements of increasingly enhanced industrial site application with a view to reliability, stability, high accuracy and the product also features strong function and without manually operating device to ensure good interaction. Application digital signal processing technology is made for good disturbance immunity. It's also feature zero point automatic stable follow up capacity and temperature automatic compensation.





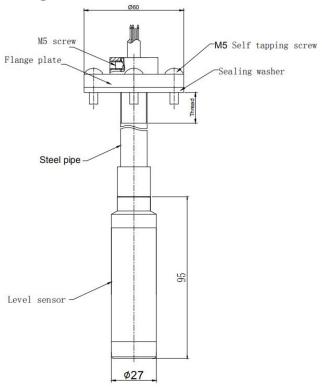
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\boldsymbol{II} . Specifications

Model Parameter	HPT604-GT							
Level Range	1502500mm by customize for RS485 Modbus.							
	5002500mm by customize for 4-20mA&0-5V							
Programmable	Zero point adjustable for RS485 output							
Overload	150% F.S.							
Burst Pressure	300% F.S.							
Accuracy	Digital output: ≤±0.25%F.S;							
(Linearity/Hysteresis/	Analog output:							
Repeatability)	≤±0.25%F.S (2m≤LR≤2.5m);							
	≤±0.5%F.S (1m≤LR<2m);							
	≤±1.0%F.S (0.5m≤LR<1m);							
	All above @25 degree C Including non-lin., rep. and hys. Optional							
Long-term Stability	0.1%F.S±0.05%/Year	0.1%F.S±0.05%/Year						
Temp.Compensation	0℃~80℃	0°C~80°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)							
Medium compatible	Compatible with SUS304 Stainless Steel							
Output	4-20mA	0-5V	RS485 Modbus RTU					
Power Supply	7-30Vdc	8-30Vdc	3.5-36Vdc					
Baud rate	9600 (typical), 2400,4800,19200 on request							
Data format	1 start bit, 8 data bits, 1 stop bit							
Odd and even	None							
calibration								
Sampling rate	3 points/second at RS485 mode							
Resolution	1mm							
Loading Resistance	99 channels							
Insulate resistance	>100M Ω @100V dc							
Temp. Drift	≤0.02%FS/°C							
Electronic connection	Fixed cable with vented tube and water proof IP67							
Mounting Type	Flange with four install holes and diameter 62mm, others by customized.							
Response time	≤10ms							
Pressure Type	Gauge pressure							
Certificate	Exia IICT6 and CE Certificate							
EMC Standard	EN 61326-1:2013; EN 6	51326-2-3:2013						
	EN 61000-6-2:2005; EN61000-6-4:2007+A1							
Protection	With protection of static electronics, lightning, overload voltage (max 32VDC)							
IP Rating	IP68							



III. Dimension and Drawing



IV. Electronic Wires Connection

	Directly seal	ed cable			
		Red	V _{cc} +		
	Current	Green	S _i +		
		Yellow	Shield		
		Red	V _{cc} +		
=	Voltage	Green	Vout		
		Yellow	Shield		
		Black	GND		
		Red	V _{cc} +		
204104	RS485 RTU Modbus	Black	GND		
		Green	RS485A		
_		Blue	RS485B		
		Yellow	Shield		



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V. Part Number Selection Table

604GT		Submersible Pressure Fuel Level Transducer												
	Code		Pressure & Level Range											
	00		00.5 m				02		02 m					
	01			01 m X						By customized				
		Code		Pressure & Level Units										
		Н		m H2O										
		F					m Fuel							
			Code				Pr	essı	ure type					
			G			Gaug	e/Relative	pre	ssure typ	e (unive	ersal)			
				Code				Р	ower Su	pply				
				S12	8-30Vdc	S42	3.5-36Vd	dc	S11	7-30∖	/dc	Х	Customized	
					Code				Signal Output					
					E11		Modbus	E5	4-20	mA	E6		0-5V	
					Х		omized 		Ma					
						Code	,	10/-4		easuring Medium			Iit0.70	
						CW D0		Wate		G0 petrol, density		•		
						D1			sity 0.83	G2 petrol, density 0.7				
						D3			sity 0.84	G5 X	1 1 2			
						D3	Code		sity 0.85		Others by customized			
							L23	<i>;</i>			Probe Length Selection			
							L43			23cm (13cm≤Tank Height≤30cm)				
							L68			43cm (30cm≤Tank Height≤50cm)				
							L93			68cm (50cm≤Tank Height≤75cm)				
							X			93cm (75cm≤Tank Height≤100cm)				
									Code	by customized Blind Zone Of Sensor				
									В	5 mm (Flat Filter)				
										Code				
										0	≤±1.0%F.S			
										1	<±0.5%F.S			
										2	≤±0.25%F.S			
											Code		able Length	
											002		2 Meters	
											Х	В	y customized	
604GT	00	F	G	S11	E5	D1	L23		В	2	002		Remarks	

Example Part No.: 604GT00FGS42E11D1L23B2002

(Model:HPT604-GT, Fuel level range 0-500mm 0.84g/cm3, gauge type, 10-30Vdc supply, RS485 MODBUS 4 wires signal, Probe length 23cm, 0.25%F.S. accuracy and with 2 meters PU cable)





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Accessories List

Items Name	Picture	Specifications	P/N	Qty	Remarks
Adjustable Pipe		Length: 23cm Materials: steel or aluminum Suitable for tank height span: 1330cm	AP023	1pc	
		Length: 43cm Materials: steel or aluminum Suitable for tank height span: 3050cm	AP043	1pc	
		Length: 68cm Materials: steel or aluminum Suitable for tank height span: 5075cm	AP068	1рс	Division
		Length: 93cm Materials: steel or aluminum Suitable for tank height span: 75100cm	AP093	1pc	Pipes spec according to order P/N and each one sensor with 1pcs
Flange		Size: 60mm diameter with 4 holes Material: Nylon With a fix screw hole	0022	1pc	pipe, 1pc flange, 1pc fix screw, 1pc O-ring and 4pcs screws.
Pipe fix screw		Size: M5 Material: stainless steel Use for fix pipe and flange	0025	1рс	
Sealing O-ring	0	Size: Diameter 60mm with 4 holes Material: NBR Use for sealing flange and tank top	0023	1pc	
Mounting Screws		Size: M4.8 Material: stainless steel Use for fix flange and tank top	0026	4pcs	