

HPT604-GT Generator Lower Fuel Tank Application

Submersible Fuel Level Transducers



I . Profiles

HPT604-GT series digital pressure level transducer with high stable and reliable, which use USA GE pressure CHIPS 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 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.

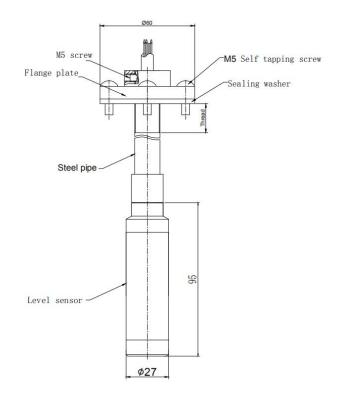


II . Specifications

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@25degree C:	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);						
	Including non-lin., rep. and hys. O	ptional					
Long Stability:	0.1%F.S±0.05%/Year	Max: 0.15%F.S±0.05%/Year					
Temp Compensation:	0°C~50°C						
Working Temp:	-30°C~70°C	-30°C~70°C					
Storage Temp:	-40°C~85°C						
Medium compatible:	Compatible with SUS304 Stainless Steel						
Output:	RS485 Modbus Rtu (4 bits display output data, INT Date and 4 wires);						
	4-20mA Loop 2 wires; 0-5V 3 wires Optional						
Power Supply:	10~ 30Vdc						
Baud rate:	9600 (standard), 2400,4800,19200 on request						
Data format:	1 start bit, 8 data bits, 1 stop bit						
Odd and even calibration:	None						
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 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 approving:	Exia IICT6 and CE Certificate.						
EMC Standard:	EN 61326-1:2013; EN 61326-2-3:2	013					
	EN 61000-6-2:2005; EN61000-6-4:2007+A1						
Protection:	With protection of static electronics, lighting, overload voltage (max 32VDC)						
Water Proof:	IP68						



${\rm III}.$ Dimension and Drawing



$I\!V.$ Electronic Wires Connection

RS485 4 wires connection

Wires No.	Wires Colors	Electronic Connection
1	Red wire	Power Supply V+
2	Green wire	GND
3	Yellow wire	RS485 +/A
4	Blue wire	RS485 -/B
5	Black wire	Shield wires to ground

Analog signal wires connection

Wires No.	Wires Colors Electronic Connect							
4-20mA Loop Wires Connection								
1	Red wire	Power Supply Vcc+						
2	Green wire	I _{out} & GND						
3	Black wire	Shield wire						
	0-5V Wires Connection							
1	Red wire	Power Supply Vcc+						
2	Black wire	Power Supply V- & V _{out} -						
3	Green wire	V _{out} +						
4	Yellow wire	Shield wire						



\boldsymbol{V} . Part Number Selection Table

604GT		Submersible Pressure Fuel Level Transducer										
	Code		Pressure & Level Range									
	00			00.5 m	1 02				02 m			
	01			01 m			Х		E	By custon	nized	
		Code			Pressure & Level Units							
		Н				m H2O						
		F		-	m Fuel							
			Code		Pressure type							
			G		Gauge/Relative pressure type (universal)							
				Code				Power S	Supply			
				S17		-		DC 10~	~30V			
					Code			Sig	ınal Out	put		
					E11		F	RS485 MOI	DBUS RT	ru (4 wir	es)	
					E5				4-20mA			
					E6			0-5V				
						Code		N	leasurin	g Mediu	m	
						CW	V	Vater	P) р	etrol, density 0.72	
						D0	Diesel, o	sel, density 0.83 P sel, density 0.84 P sel, density 0.85 X		l pe	etrol, density 0.725	
						D1	Diesel, o			2 р	etrol, density 0.74	
						D3	Diesel, o			Ot	hers by customized	
							Code	Probe Length Selection 23cm (13cm≤Tank Height≤30cm)			Selection	
							L23					
							L43		43cm (30cm≤Tank Height≤50cm)			
							L68	68cm (50cm≤Tank Height≤75cm)				
							L93		93cm (75cm≤Tank Height≤100cm) by customized			
							X					
								Code	CodeBlind Zone Of SensorA34 mm (Taper Filter)			
								В		5 mm (Flat Filter)		
									Code		Accuracy	
									0		≤±1.0%F.S	
									1		≤±0.5%F.S	
									2		≤±0.25%F.S	
										Code	Cable Length	
										002	2 Meters	
										Х	By customize	
604GT	00	F	G	S17	E11	D1	L23	В	2	002	Remarks	

Example Part No.: 604GT00FGS17E11D1L23B2002

(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)



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: 30…50cm	AP043	1рс	Pipes spec according to order P/N and each one sensor with 1pcs pipe, 1pc flange, 1pc fix screw, 1pc O-ring and 4pcs screws.	
		Length: 68cm Materials: steel or aluminum Suitable for tank height span: 50…75cm	AP068	1рс		
		Length: 293cm Materials: steel or aluminum Suitable for tank height span: 75100cm	AP093	1pc		
Flange		Size: 60mm diameter with 4 holes Material: Nylon With a fix screw hole	0022	1рс		
Pipe fix screw		Size: M5 Material: stainless steel Use for fix pipe and flange	0025	1рс		
Sealing O-ring	O	Size: Diameter 60mm with 4 holes Material: NBR Use for sealing flange and tank top	0023	1рс		
Mounting Screws		Size: M4.8 Material: stainless steel Use for fix flange and tank top	0026	4pcs		