

ZPT604 Submersible Pressure Level Transducers & Transmitters



Stainless Steel Head



nylon head

ZPT604



Characters:

- ☆ Accuracy: $\leq \pm 0.5\%$ F.S.
- ☆ Wide working temperature scope
- ☆ Advanced digital temperature compensation.
- ☆ Excellent resistance against impact, overload, Shock and erosion.
- ☆ Highly-efficient lightning protection and strong RFI & EMI resistance
- ☆ Impact resistance and disturbance
- ☆ 1.5 times range standard overload.
- ☆ 3 times range burst pressure
- ☆ CE approving

Applications:

- ★ Industrial course testing and control
- ★ Automatic testing and detection systems
- ★ well level measurement and control
- ★ Sea water level measurement and control
- ★ Sewage project and level application.
- ★ Laboratory equipment
- ★ Oil and Fuel Tank level measuring
- ★ High temperature medium level application
- ★ Building monitoring and control for water level.
- ★ Various liquid tanks pressure or level measurement.
- ★ And so on

I . Profiles:

ZPT604 is full sealed submersible level transducer/transmitter. It is made by building in high stable and reliable OEM piezo-resistive pressure sensor 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.

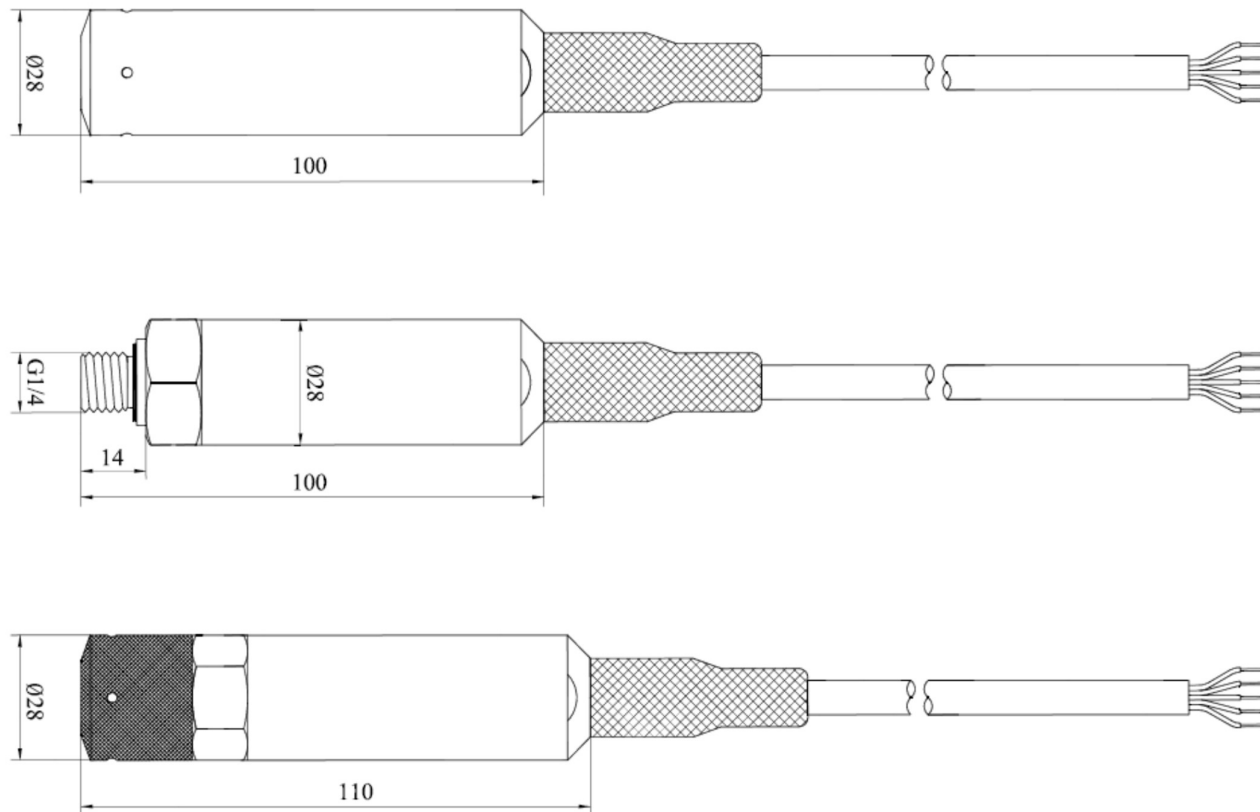
For high temperature level application (up to 100 degree C), which is customized transmitters and manufacture with Germany sputtered film chips sensor, so the stability and quality very good.

ZPT604 level transducer/transmitter has compact size, light weight and good stability; it can be used for water or liquid measure and control of medicine, metallurgy, electricity, mine, city water supply and drainage and hydrology, etc.

II . Specifications:

Model:	ZPT604					
Parameter:						
Characteristic:	Various configurations Corrosive proof, explore proof and leakage proof functions Highly-efficient lighting protection and strong RFI & EMI resistance and well stability					
Applications:	a. Water tank level measurement and control. b. Fuel tank level measurement and monitor (diesel, gasoline, kerosene and so on). c. Liquid level measuring in tank, rivers, lake, sea, well, tube, underground water and so on. d. Special occasion such as high temperature liquid (up to 100 degree C), strongly corrosion liquid level measurement (request by customized.)					
Pressure Range:	0-0.1 Bar.....50 Bar / 0-1M.....500M H2O Optional					
Overload:	150% F.S.					
Burst Pressure	300% F.S.					
Accuracy: (Linearity; Hysteresis; Repeatability)	≤ ±0.5%F.S; ≤ ±0.25%F.S; ≤ ±0.1%F.S Including non-lin., rep. and hys. Optional					
Long Stability:	Standard: 0.2%F.S±0.05%					
Working Temp:	-30°C~70°C OR -30°C~100°C(Customized)					
Storage Temp:	-40°C~90°C OR -40°C~100°C(Customized)					
Temperature Compensation:	-10°C~65°C OR -20°C~80°C(Customized)					
Medium compatible:	Compatible with 316L Stainless Steel					
Electronic Wire:	2 Wires	3 Wires			4 wires	
Output:	4~20mA	1~5V 0~5V	0~10 V	0.5~4.5 V Ratiometric	0-100 mV/V	RS485 Modbus RTU
Power Supply:	12~36 V DC	10~36 Vdc	15~36 Vdc	5 Vdc	10 Vdc	10~30 Vdc
polarity protection	Yes	Yes	Yes	Yes	Yes	Yes
Insulate resistance:	> 100M Ω@100V					
Zero Temp. Drift:	0.03%FS/°C (≤100kPa); 0.02%FS/°C (>100kPa)					
FS Temp. Drift:	0.03%FS/°C (≤100kPa); 0.02%FS/°C (>100kPa)					
Electronic connection:	Fixed cable and water proof IP68					
Response time:	≤10 ms (standard); ≤1 ms (Customized)					
Pressure Type:	Gage pressure; Sealed gage pressure optional.					
Certificate approving:	intrinsic safety or ExdIICT6 and CE Certificate approving					
EMC Standard:	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1					
Lighting Protection: (optional functions)	Air conduction more than 8000V; external sensor more than 4000 Voltage protection.					
Cable optional:	Cable materials are optional according request, we offer 3 type special cable as follow: PE Cable (Water Proof) ; PUR Cable (Oil Proof) ; PTFE Cable (Anti-Corrosive) .					
Weight:	Net weight is about 0.35KG, Full Packing weight is about 1.0 KG (Not Include Cable)					
Remarks:	Special applications request by customized					

III. Dimension and Drawing:



IV. Electronic Connections:

Electronic Wire Connections					
	Power Supply +	Power Supply -	Signal Output +	Signal Output -	Ground Wire
2 wire 4-20 mA	Red wire	NA	Green wire	NA	Black wire
3 Wire 0-5V; 0-10V; 0.5-4.5V	Red wire	Green wire	Yellow wire	Green wire	Black wire
4 wires RS485 MODBUS	Red wire	Green wire	Yellow wire	Blue wire	Black wire

V. Part Number Selection Table:

604	Submersible Pressure Liquid Level Transducers&Transmitters			
Range code	Pressure & Level Range	Range code	Pressure & Level Range	
00	0...0.5	21	0...7	
01	0...1.0	22	0...8	
02	0...1.1	23	0...10	
03	0...1.2	24	0...12	
04	0...1.3	25	0...15	
05	0...1.4	26	0...16	
06	0...1.5	27	0...20	
07	0...1.6	28	0...25	
08	0...1.7	29	0...30	
09	0...1.8	30	0...35	
10	0...1.9	31	0...40	
11	0...2.0	32	0...50	
12	0...2.1	33	0...60	
13	0...2.2	34	0...80	
14	0...2.3	35	0...100	
15	0...2.4	36	0...150	
16	0...2.5	37	0...200	
17	0...3	38	0...250	
18	0...4	39	0...300	
19	0...5	40	0...500	
20	0...6	X	By Customized	
	Code	Pressure & Level Units		
	H	m H2O (Min: 0.5 mH2O; Max:500 mH2O)		
	B	Bar (Min: 0.05Bar Max: 50Bar)		
	P	Psi (Min:1Psi; Max:725Psi)		
	F	m Fuel (Min:0.5m; Max:500m)		
	Code	Pressure type		
	G	Gauge/Relative pressure type (universal)		
	A	Absolute pressure (customized)		
	Code	Power Supply		
	S3	24 V DC (standard)		
	S5	12 V DC (for code E0, E6)		
	S6	5 V DC (for code E8)		
	S9	15~36 V DC (for code E7)		
	S10	12~36 V DC (for code E0, E5, E6)		
	S17	10~30 Vdc (for code E11)		
	Code	Signal Output		
	E0	1-5 V (3 wires)		

					E5	4-20 mA (2 wires)				
					E6	0-5 V (3 wires)				
					E7	0-10 V (3 wires)				
					E8	0.5-4.5 V (3 wires)				
					E11	RS485 MODBUS RTU (4 wires)				
					X	By Customized				
						Code	Measuring Medium			
						CW	Water			
						D1	Diesel, density 0.84			
						D2	Diesel, density 0.83			
						D3	Diesel, density 0.85			
						D4	Diesel, density 0.86			
						HW	Max 100 degree C geothermal water			
						X	By Customized			
						Code	Others Function (Optional)			
						N	Standard Type (with short filter)			
						TF	With Tapered Filter Covers			
						M1	G 1/4" male thread mounting type			
						NM	Nylon materials filter			
						TA	Titanium alloy materials (high cost!)			
						P	All Plastic Housing Structure			
						Code	Accuracy			
						1	$\leq \pm 0.5\%F.S$			
						2	$\leq \pm 0.25\%F.S$			
						3	$\leq \pm 0.1\%F.S$ (high cost!)			
						4	$\leq \pm 0.15\%F.S$ (by customized)			
							Code	Cable Length		
							003	3 Meters		
							XXX	By Customized		
604	11	F	G	S10	E5	D1	N	1	003	Remarks

Example: 60411FGS10E5D1N1003