

FEATURES

- Compact, Sturdy flush diaphragm, impact resistance
- Pressure range up to 10000psi
- Variety of Pressure Ports
- Non linearity upto ±0.5%
- Up to ±1.0% Total Error Band
- -20°C...+85°C Compensated Temperature
- -40°C...+120°C Operating Temperature

SPECIFICATIONS

- High Accuracy
- Compact
- Variety of Pressure Ports and Electrical Configurations
- High corresponding frequency > 1KHz
- Multiple outputs 0~10VDC, 1~5VDC and 4~20mA
- Multiple connector optional

APPLICATIONS

- Environmental-friendly chemical coatings and polyurethane equipment
- Food grade or medical equipment for pressure control
- Paint detection system
- Slurry of mud or coal, Mud slurry Pump, Paper pulp, Crude, Asphalt, etc.
- Oilfield drilling, Well logging, Offshore oil production stands, Oil well measuring instruments, etc
- Other industrial sites requiring resistance of blocking, high-strength vibration and impact

STANDARD RANGES

Range (psi)	Range (Bar)	Gage	Seal	Absolute	Compo	ound
0250	016	•				S
0300	020	•				•s
0500	035	•				OS
0750	050	•			•	S
01000	070	•			•	O S
01500	0100	•			•	
02250	0150	•			•	
03000	0200	•			•	
03700	0250	•			•	
05000	0350	•			•	
06000	0400	•			•	
07500	0500	•			•	
010000	0700	•			•	
015000	01000	•			•	•s

Note: Intermediate ranges available upon request. For "•S" ,plesae confirm with factory.



PERFORMANCE SPECIFICATIONS

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS	MIN	TYP	MAX	UNIT	NOTES
Accuracy	-0.3	±0.25	0.3	%F.S.BFSL	@ 25°C, > 5.0MPa
(combined non linearity, hysteresis, and repeatability)	-1.0	±0.5	1.00	%F.S.BFSL	@ 25°C, < 5.0MPa
Zero Error	-0.5	±0.25	0.5		@ 25°C
Full Scale Error	-1.0	±0.5	1.0		@ 25°C
Isolation (Body to any Lead)	1000			ΜΩ	@ 500VDC
Pressure Cycles	1X10 ⁷			0~FS Cycles	
Proof Pressure	1.5X		15k psi	Rated	
Burst Pressure	2X		15k psi	Rated	
Long Term Stability (1 year)	-0.25	±0.25	0.25	%F.S	
Total Error Band	-1.0	±0.5	1.0	%F.S	>5.0MPa
(Over compensated temp range)	- 2.0	±1.0	2.0		<5.0MPa
Compensated Temperature	-10		70	°C	
Operating Temperature	-20		120	°C	Except cable 105°C max
Storage Temperature	-40		120	°C	Except cable 105°C max
Load Resistance (RL)	RL > 100k			Ω	Voltage Output
Load Resistance (RL)	<supply -9v)="" 0.02a<="" td="" voltage=""><td></td><td>Ω</td><td>Current Output</td></supply>			Ω	Current Output
Current Consumption			10	mA	Voltage Output
Rise Time (10% to 90%)	<2ms (Voltage	e Output); <3m	s (Current Outp	ut); Without Snubbe	Г
Pressure Port Material	17-4PH				
Shock	50g, 11msec	Half Sine Shoc	k per MIL-STD-	202G, Method 213B	Condition A
Vibration	±20g, MIL-STD-810C, Procedure 514.2-2, Curve L				

Notes: For custom configurations, please consult factory.

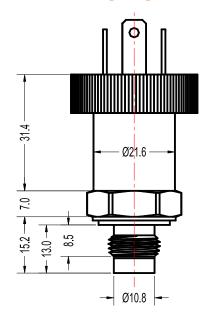
Pressure range under 0...70bar, customer to ensure venting through mating connector.

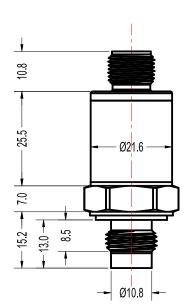
Compensated Temperature: The temperature range over which the product will produce an output proportional to pressure within the specifiedperformance limits.

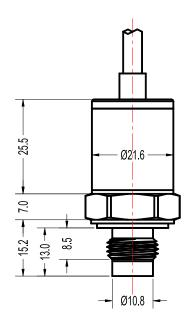
Operating Temperature: The temperature range over which the product will produce an output proportional to pressure but may not remainwithin the specified performance limits.

Storage Temperature: The temperature range over which the product can be stored safely in occasions without pressure applied or power nput and remains rated performance. Beyond this temperature range may cause permanent damage to the product. All configurations are built with supply voltage reverse and output short-circuit protections.

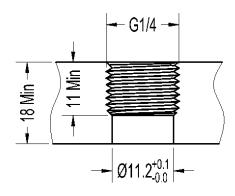
DIMENSIONS [mm]







Mounting Thread



WEATHERPROOF

WEATHER-PROOF RATING							
CODE	CONNECTION TYPE	IP CODE					
1	Cable 1m	IP67					
4	M12	IP67					
5	FORM A	IP65					

OUTPUTS

CODE	OUTPUT SIGNAL	SUPPLY VOLTAGE
1	0.5 - 4.5V	5 ± 0.25V
	RATIOMETRIC	PROTECTED to 16V
2	1 - 5V	8 - 36V
3	4 - 20mA	9 - 36V
4	0 - 5V	8 - 36V
5	0 - 10V	13 - 36V
6	1 - 6V	8 - 36V
7	0.5 - 4.5V	7.5- 36V



WIRING

Current Output Wiring							
CONNECTION +SUPPLY -SUPPLY NC.PINS P RE							
M12	1	2	3,4	Hole Through			
FORM A	1	2	3,4	Connector			
Cable	RED	BLACK		Hole Through Housing			

Voltage Output Wiring								
CONNECTION +SUPPLY +OUTPOT COMMON NC.PINS P								
M12	1	3	2	4	Hole Through			
FORM C	1	3	2	4	Connector			
Cable	RED	WHITE (GREEN)	BLACK	-	Hole Through Housing			

CONNECTION TYPES

CONNECTION TYPES							
CONNECTION	DESCRIPTION	MATING HOUSING P/N	MATING TERMINAL PIN				
M12	BINDER SERIES 713, 09 3431 77 04 OR EQUIV	4-POS FEMALE CONNECTOR	-				
FORM A	OMAL ARB03S or ARB03R	OMAL AHB6733 3+PE	-				
Cable	4-WIRE,22 AWG, UNSHIELDED,PVC,105°C	-	-				

Notes: Transmitter of gage pressure type requires vent to atmosphere on the pressure reference side.

This is accomplished via cable from the transmitter (the end of the cable should be terminated to clean and dry area) or through

the customer mating connector/cable assembly which has internal vent path.

ORDERING INFORMATION

FP53	3	5	-	1	0	1	9	-	050B	G
Model	Output	Connection	-	Port Material	Snubber	Label	Pressure Port	1	Pressure Range	Pressure Type
FP53	1= 0.5-4.5V 比例输出 2= 1-5V 3= 4-20mA 4= 0-5V 5= 0-10V 6= 1-6V 7= 0.5-4.5V X= Customer Special	1= Cable 4= M12 5= FORM A X= Customer Special		1= 304Screw+ 17-4Diaphgram X= Customer Special	0= No Snubber	0= No Label (OEM) 1= Adhesive Label 2= Laser Marking	9= G1/4 DIN 3852 X= Customer Special		050Bar B= Bar M= Mpa P= PSI K= Kpa	G= Gauge C= Compound

Note: For shielded cable or other connector requirements, please consult the factory.