MEMSPRESSURE TRANSMITTER

PRESSURE





MEMS Technology pressure transducer (Microelectromechanical system) For General Industrial Applications

General Specifications

Standard Pressure Range

Codice	Range [bar]	Codice	Range [bar]
A	-10	L	060
В	-11	M	0100
С	02	N	0160
D	04	0	0200
E	06	Р	0250
F	010	Q	0300
G	016	R	0400
Н	025	S	0500
1	040	T	0600

Other Pressure ranges are available, please conct Riels Instruments.

Specification					
Output signal	420mA	05Vdc	010Vdc	0,54,5 Vdc (ratiometric)	
Power supply (Vs)	930Vdc (2 wire)	930Vdc (3 wire)	1530Vd (3 wire)	5Vdc (3 wire)	
Accuracy	$\pm 0.5\%$ FS standard [on request: $\pm 0.1\%$ FS $\pm 0.3\%$ FS]				
Over Pressure	300%xFS				
Burst pressure	500% FS				
Zero Drift	±0.02%FS/°C				
Thermal Sensitivity Shift	±0.02%FS/°C				
Longterm Stability (1 Year)	±0.1%FS				
Frequency Response (-3dB)	3.2kHz				
Compensated Temperature	-40+85°C				
Working Temperature	-40+125°C				
Storage Temperature	-40+125°C				
Mechanical Vibration	±20g				
Impact (11ms)	100g				
Environmental Protection	IP68				
Housing Parts	17-4PH stainless steel				
Electromagnetic compatibility	EN61000-6				
Certificates	CE I RoHS				

RIB100 Pressure sensor can be used in the pressure testing in Pneumatic System, hydraulic system Meet the needs of the aerospace, defense, engineering machinery, automobile industry, air conditioning, refrigeration and other industrial facilities.

It is a silicon MEMS strain gauge sensor which is glass bonded to a stainless steel diaphragm. It avoids influences on product caused by temperature, humidity, mechanical fatigue and medium, thus to improve its longterm stability in the industrial environment. Its pressure chamber is made of 17-4PH stainless steel in an integrated way without welding seams or 0-rings and free of leakage troubles. The sensor adopts the advanced digital Compensated Temperature and is featured with the strong interference resistance, wide working temperature scope and longterm stability, etc. The series products provide several optional pressure connections and electric connections for customers.

Applications

- Industrial process testing and control
- Automatic testing system
- Hydraulic and pneumatic systems
- Pump station and water treatment system
- Industrial machinery manufacture
- Process control system
- Refrigeration systems and valve
- Air compressors

Features

- Advance Microfused Silicon Strain Gauge, whole-designed elastomer, free of leakage troubles
- Efficient lightning protection and strong anti RFI&EMI protection.
- Advanced digital temperature compensation and wide working temperature scope
- High sensibility, high accuracy, high frequency response and longterm stability

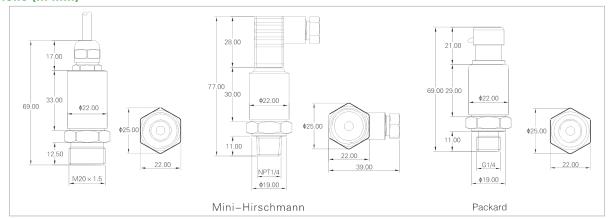


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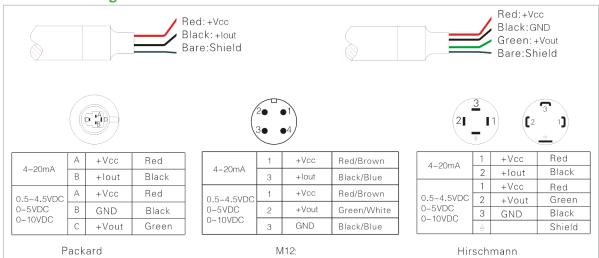
PRESSURE



Dimensions (in mm)



Electrical Connection Diagram



Ordering Information

Option 1	Туре		
RIB100	Pressure 1	Transmitter	
Option 2			
Code		Code	
Α	-10	L	060
В	-11	M	0100
С	02	N	0160
D	04	0	0200
E	06	Р	0250
F	010	Q	0300
G	016	R	0400
Н	025	S	0500
1	040	T	0600
Option 3	Mechanic	al Connecti	on
M2	M20x1.5 (male)	
8	G1/4 (mal	le)	
15	G1/2 (mal	le)	
N4	1/4NPT (m	nale)	
U7	7/16-20U	NF (male)	
Nx	Customize	ed	

Option 4	Output signal	
С	420mA	
05	05Vdc	
T	010Vdc	
45	0.54.5 (ratiometric)	
Option 5	Accuracy	
05	0.5% FS0	
10	1.0% FS0	
Option 6	Electrical connection	
D	Connector DIN43650	
Н	Connector Mini-Hirshmann	
С	Packard connection	
M	Cable outlet with PVC-cable, length=1.5 m	
Option 7	Presusre type	
G	Gauge	
А	Absolute	
-	-	
Examples of Ordering Code: RIB100-E8C-05-D-G Gauce Pressure Transducers, 0-6 bar, 4/20mA output, G1/4" G male, Connector DIN43650		