



MEAS U5600

Wireless Pressure Transducer

- Enhanced Pressure Accuracy
- Digital 24-bit ADC Output, I²C Protocol
- Bluetooth® 4.0 Wireless Connection
- CE Compliant with a Variety of Pressure Ports
- Compact and Battery Powered [CR2050]
- Optional Stainless Steel Snubber
- Weatherproof (IP66/IP67)
- FCC Certified
- Stainless Steel and Polycarbonate Enclosure
- Gage, Sealed, Absolute, Compound
- iOS, Android™ and Windows® XP/7+ Compatible

Features

- Heavy Industrial CE Approval
- 10 V/m EMI Protection
- Down to $\pm 0.1\%$ Pressure Accuracy
- Down to $\pm 0.75\%$ Total Error Band
- $\pm 3^{\circ}\text{C}$ Temperature Output Accuracy
- -10°C to $+60^{\circ}\text{C}$ Compensating Temperature
- -20°C to $+85^{\circ}\text{C}$ Operating Temperature

Applications

- Industrial Process Control and Monitoring
- Advanced HVAC Systems
- Refrigeration Systems
- Automotive Test Stands
- Off-Road Vehicles
- Pumps and Compressors
- Hydraulic/Pneumatic Systems
- Agriculture Equipment
- Energy Generation and Management
- Pool/Spa Pump Monitoring

The modular U5600 wireless pressure transducer from our UltraStable line is enclosed in a stainless steel and polycarbonate housing. This high accuracy, 24-bit ADC digital output wireless transducer eliminates hard wiring and provides remote process control and monitoring via Bluetooth® 4.0 Wireless Communication. This series is suitable for measurement of liquid or gas pressure, even for difficult media such as contaminated water, steam, and mildly corrosive fluids.

The wetted material of the pressure port is made of 316L stainless steel and the transducer's durability is excellent with no o-rings or organics exposed to the pressure media. The U5600 is weatherproof and exceeds the latest heavy industrial CE requirements.

This product is geared to the OEM customer for mid to high volumes. TE stands ready to provide a custom design of the U5600 where the volume and application warrants. Additional configurations not listed are available. Please inquire for further information.

Standard Ranges

Range (psi)	Range (Bar)	Gage	Sealed	Absolute	Compound
0 to 005	0 to .35	•	•	•	•
0 to 015	0 to 001	•	•	•	•
0 to 030	0 to 002	•	•	•	•
0 to 050	0 to 3.5	•	•	•	•
0 to 100	0 to 007	•	•	•	•
	0 to 010	•	•	•	•
0 to 200	0 to 014	•	•	•	•
0 to 300	0 to 020	•	•	•	•
0 to 500	0 to 035	•	•	•	•
0 to 01k	0 to 070	•	•	•	•
0 to 03k	0 to 200	•	•	•	•
0 to 05k	0 to 350	•	•	•	•
0 to 10k	0 to 700	•	•	•	•

Intermediate ranges available upon request.

Performance Specifications

Ambient Temperature: 25°C (unless otherwise specified) For custom configurations, consult factory.

Parameters	Min	Typ	Max	Units	Notes
Supply Voltage	2.3	3	3.6	Vdc	Replaceable CR2050 battery
Accuracy (RSS of linearity, hysteresis, and repeatability)	-0.25		0.25	%F.S.	5psi
	-0.1		0.1	%F.S.	>5 and ≤500psi
	-0.25		0.25	%F.S.	>500 and ≤5000psi
	-0.75		0.75	%F.S.	>5000psi
Temperature Output Accuracy	-3		3	°C	
Output Protocol	Digital I ² C				
Resolution	24		Bit		
Endurance	1.00E+6			0~FS Cycles	
Stability	-0.25		0.25	%F.S./year	
Total Error Band (@25°C over compensated range)	-1		1	%F.S.	5psi
	-0.75		0.75	%F.S.	>5 and ≤5000psi
	-1.25		1.25	%F.S.	>5000psi
Proof Pressure	3X		20k psi	Rated	
Burst Pressure	4X		20k psi	Rated	
Long Term Stability (1 year)	-0.1		0.1	%F.S.	
Compensated Temperature	-10		+60	°C	
Operating Temperature	-20		+85	°C	with battery
Storage Temperature	-40		+120	°C	without battery
Wireless Protocol	Bluetooth® 4.0 Wireless Connection or above				
Receiver Operating System	Android™ 4.3 or above, iOS 7 or above, Windows® XP/7 or above				
Signal Pairing Distance	65 feet				
Signal Transmission Distance	65 feet affected by receiver antenna and blocking objects				
Battery Life	2 years typical CR2050 350mAH battery, 5 second transmission interval, room temperature				
Low Battery Warning	2.5Vdc, red battery symbol in app				
Weatherproof	IP66 & IP67				
Pressure Port Material	316L Stainless Steel Port, 316L Stainless Steel Snubber				
Enclosure	Stainless Steel and Polycarbonate				
Shock	50g, 11msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A				
Vibration	±20g, MIL-STD-810C, Procedure 514.2, Fig 514.2-2, Curve L				

Note:

CR2050 Battery not supplied by manufacturer.

Battery life depends on its capacity, operating temperature and signal transmission interval.

Some battery models offer high operating temperatures up to 125°C with nominal capacity 350mAh.

Temperature can impact battery capacity retention even if idle. Check battery specifications for more details.

Compliances

EN 55022 Emissions Class A & B

IEC 61000-4-2 Electrostatic Discharge Immunity (4kV contact/8kV air)

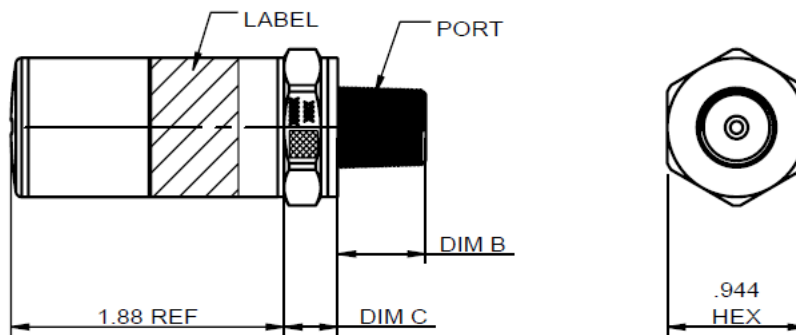
IEC 61000-4-3 Radiated, Radio-Frequency Electromagnetic Field Immunity (10V/m, 80M-1GHz); deviation <1.5%

RoHS

FCC

Bluetooth®

Dimensions [mm]



Code	Port	Dim B	Dim C Ref.
2	1/4-19 BSPP	0.472 [11.94]	0.366 [9.3]
3	G3/8 JIS B2351	0.540 [13.72]	0.366 [9.3]
4	7/16-20UNF MALE SAE J1926-2 STRAIGHT THREAD O-RING BUNA-N 90SH-904	0.433 [11.0]	0.366 [9.3]
5	1/4-18 NPT	0.600 [15.24]	0.366 [9.3]
6	1/8-27 NPT	0.390 [9.91]	0.366 [9.3]
B	G1/4 JIS B2351	0.472 [11.94]	0.366 [9.3]
E	1/4-19 BSPT	0.500 [12.7]	0.366 [9.3]
F	1/4-19 BSPP FEMALE (without snubber)	0.771 [19.58]	0.366 [9.3]
P	7/16-20UNF FEMALE SAE J513 STRAIGHT THREAD WITH INTEGRAL VALVE DEPRESSOR	0.687 [17.5]	0.366 [9.3]
Q	M10 x 1.0 mm ISO 6149-2	0.374 [9.5]	0.366 [9.3]
N	7/16-20UNF FEMALE SAE J513 STRAIGHT THREAD	0.687 [17.5]	0.366 [9.3]
S	M12 x 1.5 mm ISO 6149-2	0.433 [11.0]	0.366 [9.3]
U	G/14 DIN 3852 FORM E GASKET DIN3869-14 NBR	0.472 [11.94]	0.445 [11.3]
W	M20 x 1.5 mm ISO 6149-2	0.551 [14.0]	0.366 [9.3]
G	M14 x 1.5 mm ISO 6149-2	0.433 [11.0]	0.366 [9.3]

U5600

Wireless Pressure Transducer

How to Operate

Please refer to the [M5600/U5600 Installation Manual](#) and [M5600/U5600 Software Manual](#).

Note: Communication is max 65 feet

Ordering Information

U56	00	-	0	0	00	0	5	-	100P		G
Model	00	-	0	Snubber	00	Label	Pressure Port	-	Pressure Range		Pressure Type
U56	00	-	0	0 = No Selection 1 = With Snubber	00	0 = Adhesive Label 1 = Laser Marking	2 = 1/4-19 BSPP 3 = G3/8 JIS B2351 4 = 7/16-20UNF Male SAE J1926-2 Straight Thread O- Ring BUNA-N 90SH-904 5 = 1/4-18 NPT 6 = 1/8-27NPT B = G1/4 JIS B2351 E = 1/4-19 BSPT F = 1/4-19 BSPP Female P = 7/16-20UNF Female SAE J513 Straight Thread with Integral Valve Depressor Q = M10 x 1.0 mm ISO 6149-2 N = 7/16-20UNF FEMALE SAE J513 Straight Thread S = M12 x 1.5 mm ISO 6149-2 U = G1/4 DIN 3852 Form E Gasket DIN3869-14 NBR W = M20 x 1.5 mm ISO 6149-2 G = M14 x 1.5 mm ISO 6149-2	-	005P 015P 030P 050P 100P 200P 300P 500P 01KP 03KP 05KP 07KP 10KP	.35B 001B 002B 3.5B 007B 010B 014B 020B 035B 070B 200B 350B 500B 700B	G = Gage S = Sealed A = Absolute C = Compound

Note: Compound pressure range is -14.7 to xxxpsig or -1 to xxxbarg. (e.g. 200PC: -14.7 to 200psig, 020BC: -1 to 20barg)

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