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Features

- Heavy Industrial CE Approval
- 10 V/m EMI Protection
- Down to ±0.1% Pressure Accuracy
- Down to ±0.75% Total Error Band
- ±3°C Temperature Output Accuracy
- -10°C to +60°C Compensating Temperature
- -20°C to +85°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

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

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	•	٠	٠	•
0 to 015	0 to 001	•	•	٠	•
0 to 030	0 to 002	•	٠	٠	•
0 to 050	0 to 3.5	•	•	٠	•
0 to 100	0 to 007	•	٠	٠	•
	0 to 010	•	•	٠	•
0 to 200	0 to 014	•	٠	٠	•
0 to 300	0 to 020	•	•	٠	•
0 to 500	0 to 035	•	٠	٠	•
0 to 01k	0 to 070	•	۰	•	•
0 to 03k	0 to 200	•	•	•	٠
0 to 05k	0 to 350	•	•	•	٠
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	Тур	Max	Units	Notes			
Supply Voltage	2.3	3	3.6	Vdc	Replaceable CR2050 battery			
A	-0.25		0.25	%F.S.	5psi			
Accuracy (RSS of linearity, hysteresis, and	-0.1		0.1	%F.S.	>5 and ≤500psi			
repeatability)	-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	-1		1	%F.S.	5psi			
(@25°C over compensated range)	-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®	Bluetooth® 4.0 Wireless Connection or above						
Receiver Operating System	Android [™] 4	1.3 or above	e, iOS 7 or abo	ove, Windows® XP/7	7 or above			
Signal Pairing Distance	65 feet							
Signal Transmission Distance	65 feet affe	65 feet affected by receiver antenna and blocking objects						
Battery Life	2 years typi	2 years typical CR2050 350mAH battery, 5 second transmission interval, room temperature						
Low Battery Warning	2.5Vdc, red	2.5Vdc, red battery symbol in app						
Weatherproof	IP66 & IP67	7						
Pressure Port Material	316L Stainl	316L Stainless Steel Port, 316L Stainless Steel Snubber						
Enclosure	Stainless S	Stainless Steel and Polycarbonate						
Shock	50g, 11mse	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)

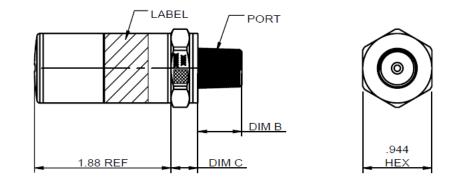
IEC 61000-4-3 Radiated, Radio-Frequency Electromagnetic Field Immunity (10V/m, 80M-1GHz); deviation <1.5%

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]
В	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]
Р	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]
Ν	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]

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 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	-	015P 00 030P 00 050P 3. 100P 00 200P 01 300P 02 500P 03 01KP 07 03KP 20 05KP 35 07KP 50	35B 01B 02B .5B 07B 10B 14B 20B 35B 70B 00B 50B 00B 00B	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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