



ELECTRONIC PRESSURE MEASUREMENT PRODUCTS

Model 89 Military QPL Pressure Transducer

DESCRIPTION

The Model 89 pressure transducer has been specially designed to meet the needs of military and/or marine applications and conforms to military specification MIL-P-24212C (SH). The Model 89 accurately measures pressures and transmits a fully adjustable 4-20 mA output signal for remote display, recording or control.

The Model 89 is available in gauge, compound, vacuum and absolute ranges from 30" Hg vacuum to 0-6000 psi.

Direct Replaceability

The Model 89 transducer is interchangeable with all existing pressure transducers designed to MIL-P-24212C (SH). The mounting is designed to match the footprint of existing transducers for quick and easy installation.

Minimal Maintenance

Calibration is quick and easy with the non-interacting zero and span adjustments.

FEATURES

- QPL approved to MIL-P-24212C (SH)
- Non-interacting zero and span adjustments for quick calibration
- Mounting interchangeable with existing instrument mounts
- Pressure connections conform to MS16142

**Model 89
Transducer**



SPECIFICATIONS

Functional Specifications: In accordance with MIL-P-24212C (SH)

Applications: Steam, oil, sea water, flue gas, ammonia, oxygen, other gases, fresh water, condensate

Output: 4-20 mADC

Power Supply: 28 VDC \pm 4.5V with reverse protection

Loop Resistance: 0-250 ohms

Zero/Span Adjustments: 8% F.S. output

Temperature Limits: *Compensated*
0°C to 65°C (32°F to 149°F)

Overpressure: 200% of range up to maximum of 10,000 psi (whichever is less)

Humidity: 0-100% RH

Volumetric Displacement:
Less than 0.002 cc

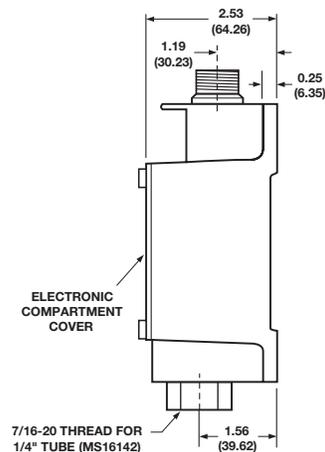
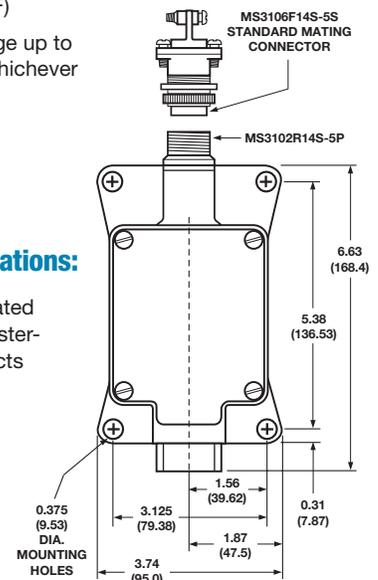
Performance Specifications:

Accuracy: \pm 1.0% of calibrated span including linearity, hysteresis, and temperature effects

Repeatability: Within 0.5% of span

Shock Test: In accordance with Grade-A, Class I, Type C of MIL-S-901

EMI: In accordance with MIL-P-24212C (SH)



**INCHES
(MM)**

MS3102 CONNECTOR PIN DESIGNATOR

A	(+) SIGNAL 28 VDC
B	(-) SIGNAL 28 VDC
C	GROUND



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Model Numbering:						
● 89 QPL pressure transducer – AMETEK code is first, Mil spec 1.2.1.1 in parenthesis						
89PGT (PGT)	Gauge pressure transducer					
89PCT (PCT)*	Compound pressure transducer					
89PVT (PVT)**	Vacuum pressure transducer					
89PWT (PWT)***	Inches of water pressure transducer					
● Application						
	AMETEK	Mil spec 1.2.1.4	Sensor material			
	GP	GP	CRES material			
	SW	SW	NI CU material			
	FG	FG	CRES material			
	OX	OX	NI CU material			
● Pressure ranges						
	AMETEK	Mil spec 1.2.1.5	Pressure			
	5	5	0-5 PSI			
	15	15	0-15 PSI			
	30	30	0-30 PSI			
	50	50	0-50 PSI			
	60	60	0-60 PSI			
	75	75	0-75 PSI			
	100	100	0-100 PSI			
	150	150	0-150 PSI			
	200	200	0-200 PSI			
	300	300	0-300 PSI			
	500	500	0-500 PSI			
	600	600	0-600 PSI			
	1000	1000	0-1000 PSI			
	1500	1500	0-1500 PSI			
	3000	3000	0-3000 PSI			
	5000	5000	0-5000 PSI			
	6000	6000	0-6000 PSI			
	*15	15	30"Hg-0-15 PSI			
	*30	30	30"Hg-0-30 PSI			
	*100	100	30"Hg-0-100 PSI			
	*150	150	30"Hg-0-150 PSI			
	**30	30	0-30"Hg			
	***150	150	0-150" WC			
	***300	300	0-300" WC			
● Reference						
	AMETEK	Mil spec 1.2.1.6	Type			
	G	G	Gauge			
	A	A	Absolute			
● Power Supply for Mil spec 1.2.1.7						
		2	28VDC ±4.5V			
89 PGT	GP	30	G	2	CONN	For non-standard connection options, consult AMETEK
PGT	GP	30	G	2		