

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

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)

QPL Pressure Transducer

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

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
10000	10000	0-10000 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

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 28 VDC ±4.5V

CONN For non-standard connection options, consult AMETEK

89 PGT
PGT

GP
GP

30
30

G
G

2
2

Dimensions

