



ELECTRONIC PRESSURE MEASUREMENT PRODUCTS

Model 89D Military QPL Differential Pressure Transducer

DESCRIPTION

The Model 89 Differential Pressure Transducer has been specially designed to meet the needs of military and/or marine applications and conforms to military specification MIL-D-24304B. The Model 89 accurately measures differential pressures and transmits a fully adjustable 4 to 20 mA output signal for remote display, recording, or control.

The Model 89 is available in differential ranges from 150" WCD to 400 psid.

Direct Replaceability:

The Model 89D transducer is directly interchangeable with existing pressure transducers designed to MIL-D-24304B. 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.



Model 89D

FEATURES

- QPL approved to MIL-D-24304B
- 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-D-24304B
- Applications: steam, oil, sea water, flue gas, ammonia, oxygen, other gases, fresh water, condensate
- Output: 4-20 mADC
- Power Supply: 28 VDC with reverse polarity protection
- Loop Resistance: 0 to 250 ohms
- Zero/Span Adjustments: 8% full scale output
- Temperature Limits: Compensated: 0°C to 65°C (32°F to 149°F)
- Overpressure: 200% of range or maximum rated line pressure (whichever is greater)
- Humidity: 0 to 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-D-24304B



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Model Numbering:						
● 89D QPL differential pressure transducer – AMETEK code is first, Mil spec in parenthesis						
89D (PDT) Differential pressure transducer						
● Application – AMETEK Mil spec Diaphragm material						
GP GP CRES material						
SW SW NI CU material						
FG FG CRES material						
OX OX NI CU material						
● Pressure ranges – AMETEK Mil spec Pressure Rating						
15 15 0-15 PSID 150						
20 20 0-20 PSID 150						
30 30 0-30 PSID 150						
60 60 0-60 PSID 150						
100 100 0-100 PSID 150						
200 200 0-200 PSID 600						
400 400 0-400 PSID 600						
150 150 0-150 WCD 150						
300 300 0-300 WCD 150						
● Units						
PSID Unit for standard or Mil spec						
WCD Unit for standard or Mil spec						
● Pressure rating – AMETEK Mil spec						
150 150						
600 600						
● Power supply for Mil spec						
2 28 VDC						
89D	GP	30	PSID	150	2	CONN For non-standard connection options, consult AMETEK
PDT	GP	30	PSID	150	2	

