Product Data

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.



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 protec-
- 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: ±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





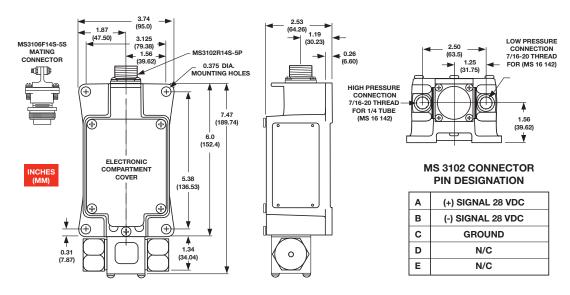




ELECTRONIC PRESSURE MEASUREMENT PRODUCTS

Model 89D Military QPL Differential Pressure Transducer

9D (PI	OT) Differen	tial pressure t	ransducer			
•	Application -	AMETEK	Mil spec	Diaphragm	material	
		GP	GP	CRES m		
		SW	SW	NI CU m		
		FG OX	FG OX	CRES material NI CU material		
		<u> </u>	***			
	Press	ure 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				
			Unit for standa Unit for standa			
		• Pre	ssure rating -	AMETEK	Mil spec	
				150	150	
				600	600	
			Power supp	ly for Mil spec		
			2 28 VE			





Sales/Technical Support Telephone: +1 215-674-1234 or e-mail: mctpmt.sales@ametek.com 205 Keith Valley Road | Horsham, PA 19053 U.S.A. | Order Fax: +1 215-672-8981