

PRESSURE TRANSDUCERS

Model 89 QPL Differential Pressure Transducer

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

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.

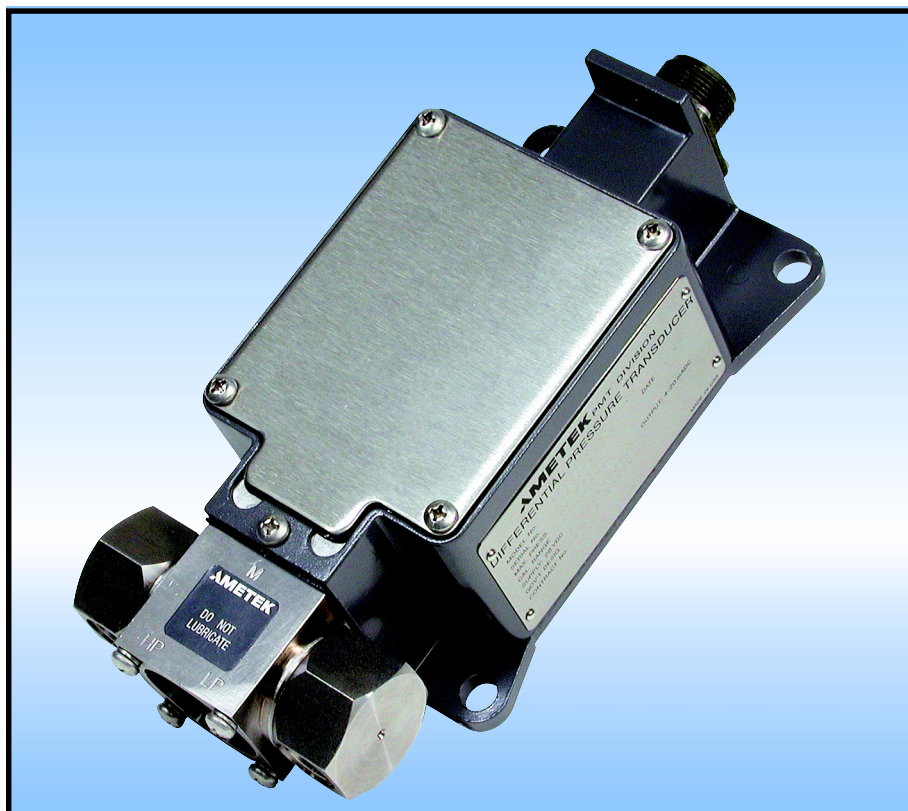
The Model 89 is available in differential ranges from 300 inch wtr to 400 psi.

DIRECT REPLACEABILITY:

The Model 89 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.



**DESIGNED FOR DEPENDABLE PRESSURE
SERVICE IN MARINE AND MILITARY APPLICATIONS**

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

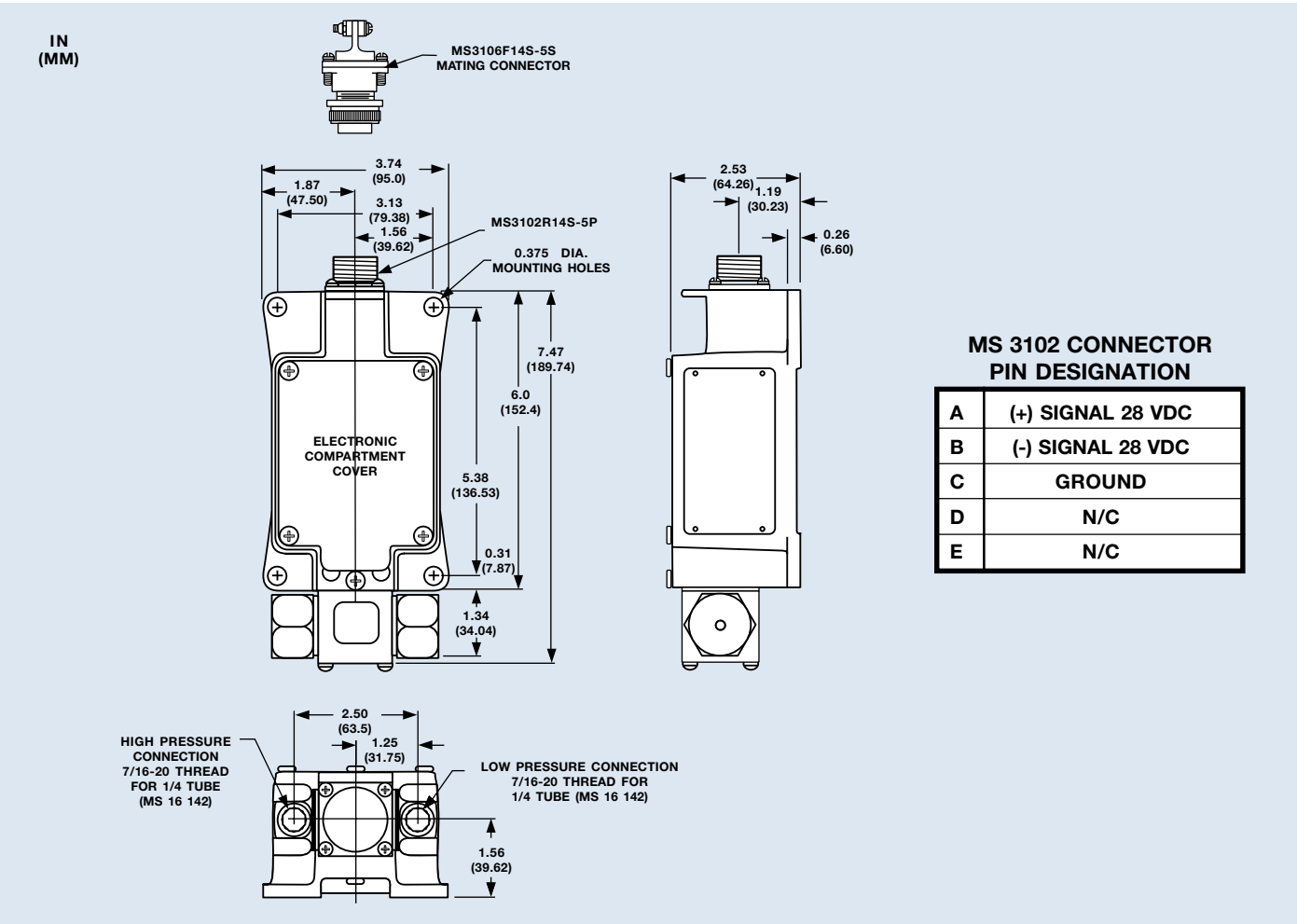
REPEATABILITY: within 0.5% of span

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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DIMENSIONS



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

AMETEK 89D GP 30 PSID 150 2 CONN.
MIL SPEC PDT GP 30 PSID 150 2

TYPE	
AMETEK	MIL SPEC
89D	PDT

APPLICATION		
DIAPHR. MATERIAL	AMETEK	MIL SPEC
CRES	GP	GP
NI CU	SW	SW
CRES	FG	FG
NI CU	OX	OX

UNITS	
AMETEK	MIL SPEC
PSID	PSID
WCD	WCD

NON-STANDARD CONNECTION OPTIONS
CONTACT AMETEK FOR CONNECTION OPTIONS

POWER SUPPLY	
AMETEK	MIL SPEC
2	2

PRESSURE RATING	
AMETEK	MIL SPEC
150	150
600	600

RANGE			
PRESSURE	AMETEK	MIL SPEC	RATING
0-15 PSID	15	15	150
0-20 PSID	20	20	150
0-30 PSID	30	30	150
0-60 PSID	60	60	150
0-100 PSID	100	100	150
0-200 PSID	200	200	600
0-400 PSID	400	400	600
0-300 WCD	300	300	150

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ISO 9001 REGISTERED MANUFACTURER

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