

Single-Channel Carrier Demodulator For AC Transducers

Model DM



USED WITH

LVDTs OR VRTs

Model DM, for carrier transducers, is a low-cost bench, panel, or rack-mounted instrument which contains a power supply, signal conditioner, amplifier (Bipolar 5 Volt output), and digitizer. The 4 1/2-digit LED display features bright, easy-to-read .56" high characters. The compact 1/8 DIN size case measures 3.8" W x 1.9" H x 5.2" D. High/Low limits, peak detection, or track/hold options are available; however, **due to the small unit size, only one of these features can be specified per unit.** Wires easily attach to the rear connector using screw terminals.

The model DM features an accurate 5 KHz. drive supply for the transducer, a stable signal amplifier and a novel demodulation technique that produces a high accuracy result.

Order Code AE214

GENERAL

ENVIRONMENTAL

TRANSDUCER INTERFACE

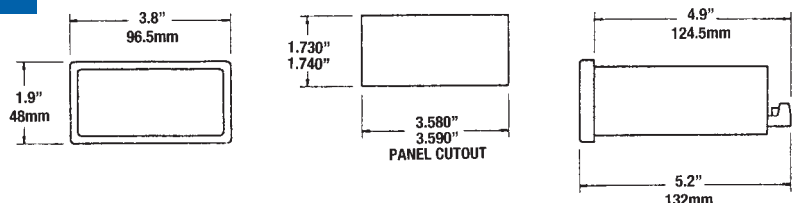
AMPLIFIER CHARACTERISTICS

DIGITAL DISPLAY CHARACTERISTICS

PHYSICAL CHARACTERISTICS POWER SUPPLY

# Channels	1
Case Material	Noryl Plastic
Temperature, Storage	-20° to 200° F (-30° to 95° C)
Temperature, Operating	32° to 130° F (0° to 55° C)
Transducer Excitation	3 VRMS @ 5 KHz
Type of Inputs Accepted	AC, LVDT, VRT
Transducer Current Drive (ma.) ...	See transducer minimum impedance
Input Gain Range	< 1 to 300
Calibration Method	Manual displacement
Noise & Ripple	< 300 microvolts
Transducer Minimum Impedance ..	7 ohms
Full Scale Output	±5 Volts
Output Impedance	< 2 ohms
Accuracy	±0.1%
Frequency Response	300 Hz
Common Mode Rejection	60 dB
Fine Span Adjust	> ±15%
Coarse Span Adjust	> 80%
Fine Zero Adjust	> ±5%
Coarse Zero Adjust	> ±20%
Short Circuit Protected	Yes
# Characters Displayed	4-1/2
Conversions Per Second	3
Scaling	0-19,999
Scaling Method	Potentiometer
Polarity Indication?	Yes
Decimal Pt. Selection	Jumper (non-solder)
Display Size	0.56"
Overrange Indication	Flashing display
Resolution	1/20000
Type	LED
Input/Output Connector	Press-in terminals
Weight	2 lbs.
Power Requirements	115VAC (optional 220VAC, 12VDC)

Dimensions



Options (See Appendix)

58a High/Low limits (relay contact closure rated at 24V @ 1 amp); 58c Peak/Hold unipolar; 58d Track/Hold; 60c Battery power (12VDC)

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