



Model AN40-V & AN40MA RATE INDICATORS

The AN40 Rate Indicator with an analog output is comprised of compact, convenient and precision electronics designed to interface with any frequency generating device such as a turbine flowmeter. The AN40-V linearly converts a frequency input to an equivalent voltage output of 0-5 V or 0-10 V as selected. The AN40-MA converts a frequency input to a representative 4-20 mA output. A 3½ or 4½ digit LCD display provides the user with rate indication in any engineering unit. When incorporated with a turbine flowmeter an interface voltage or current output and display proportional to flow is obtainable. An

input supply voltage of 110 VAC or 12 VDC is standard.

The AN40-V provides 4 adjustments for calibration: sensitivity, zero, span and display. An additional offset adjustment is incorporated in the AN40-MA. All adjustments can be either front panel accessible or interior mount. "Sensitivity" permits the discrimination between signal and noise by increasing (CCW) or decreasing (CW) the input amplitude necessary to be processed as a valid signal. "Zero" adjusts the analog output for .000V or 4 mA with no frequency input. "Span" adjusts the full



scale frequency analog output level. "Display" establishes the displayed rate in the desired engineering unit; equivalent to the analog output.

Model AN40 Features

Temperature:

Operating: 0°-70°C
Storage: 20°-85°C

Input Voltage:

110 VAC or 12-16.5 VDC
100 mA maximum
Observe polarity (consult for other input voltages)

Signal input:

Frequency: 0-10KHz
Amplitude: 50mV-36V sine or square wave
Sensitivity field adjustable
Impedance: 10K ohms

Analog output:

AN40-MA

4 mA @ 0 Hz
20 mA @ desired full scale frequency

AN40-V

0V @ 0 Hz
5 or 10 V @ desired full scale frequency

Full Scale Range: 150 Hz - 10 KHz (consult factory for + ranges)
Response time 95% of change in 1 second
Linearity 0.3% F/S
Tempco < 2% of reading over entire temperature range
Voltage output minimum load resistance: 250 ohms
MA output maximum load resistance: 500 ohms

Features:

Switch selectable output voltage 5 or 10 V
LCD 3½ or 4½ digit rate display
All adjustments field accessible
Small size 3" x 2" x 0.75" PC Board

Enclosure:

NEMA 4 x 4"x4"x3"

Dimensions

