

3½ DIGIT LCD USER ADJUSTABLE DIGITAL PANEL METERS

SPECIFICATIONS

INPUTS

• DC Voltage & Current

Accuracy: $\pm(0.1\% + 1 \text{ Count})$ Typ.
 $\pm(0.2\% + 1 \text{ Count})$ Max.

Protection: mV DC; 200V Continuous, 350V Int.
V DC; 350V Continuous, 500V Int.
DC Shunt; 5V Maximum.

• DC Shunt

Accuracy: $\pm(0.1\% + 1 \text{ Count})$ Typ.
 $\pm(0.2\% + 1 \text{ Count})$ Max.

Protection: 5V DC Maximum.

• AC TRMS Voltage & Current

Accuracy: $\pm(0.5\% + 1 \text{ Count})$ Typ. Res 1Meg.

Protection: AC Volt; 350V Continuous, 500V Int.
AC Current; 300% Full Scale.
2A & 5A; 120% Full Scale.

• Frequency

Accuracy: 40.0 to 199.9Hz Range; $\pm 0.2\text{Hz}$, 40 to 70Hz
 $\pm 0.5\text{Hz}$, 70 to 199.9Hz
40 to 600Hz Range; $\pm 2\text{Hz}$, 40 to 600Hz
Less than 0.2 Hz error for up to 20% Third
Harmonic Distortion

• Loop Powered Process (4 to 20 mA DC)

Accuracy: $\pm(0.1\% + 1 \text{ Count})$.
Protection: 30mA Forward, 75mA DC Reverse.
Burden: 2.2V Maximum with Reverse Current Protection.
1.5V Option Contact Factory.

• Process (4 to 20 mA DC)

Accuracy: $\pm(0.1\% + 1 \text{ Count})$ Typ.
 $\pm(0.2\% + 1 \text{ Count})$ Max.
Protection: 100mADC.
Burden: 240mVDC @ 20mADC.

• Process (1 to 5V DC)

Accuracy: $\pm(0.1\% + 1 \text{ Count})$ Typ.
 $\pm(0.2\% + 1 \text{ Count})$ Max.
Protection: 200V DC Continuous.
350V Int.

• Temperature (K-Type Thermocouple)

Accuracy:
-40° to -30°F: ± 0.5 of reading + 3
-30° to 550°F: ± 0.5 of reading + 2
550° to 650°F: ± 1 of reading + 3

-40° to -30°C: ± 0.5 of reading + 3
-30° to 250°C: ± 0.5 of reading + 2
250° to 320°C: ± 1 of reading + 2

Resolution: 1 degree °C/°F

DISPLAY

Digits: 3½ (± 1999). Type:
Height: 7-Segment LCD. 0.5" (12.7mm).
Polarity: Automatic, (-) Displayed.
Overload: Three lower order digits blank for >1999 counts.
Decimal Point: 3 Position, Switch Selectable.

PERFORMANCE

Conversion Rate: 2.5 Per Second.
Normal Mode Rejection: >30dB @ 60Hz.
Warmup: 10 minutes Typ.

POWER OPTIONS

115 & 230V AC: 50 to 60 Hz. & (110 & 220V DC):
-15%, +10%, < 2VA at 115V AC, < 3VA at 230V AC.
12 & 24V DC Isolated:
-15%, +20%, 105mA DC with Backlighting.
10 to 15 DC & 16 to 32V DC Non-Isolated:
105 mA DC with Backlighting.

SCALING (AC TRMS, Process, DC Isolated Inputs)

Full Scale SPAN Adjustment:

Coarse Adjustment: Four Ranges set by DIP Switch.
100 to 400 Counts 800 to 1500 Counts
400 to 800 Counts 1500 to 2000 Counts
Fine Adjustment: 25 Turn Potentiometer.

Zero OFFSET Adjustment:

Fine Adjustment with 25 Turn Potentiometer.
 $\pm 15\%$ of Full Scale (for Process Input).
 $\pm 10\%$ of Full Scale (for AC TRMS Input).

SCALING (Loop Power, DC Shunt & Non-Isolated Inputs)

Full Scale SPAN Adjustment:

Coarse Adjustment: Four Ranges set by DIP Switch.
100 to 250 Counts 500 to 1000 Counts
250 to 500 Counts 1000 to 2000 Counts
Fine Adjustment: 25 Turn Potentiometer.

Zero OFFSET Adjustment (Loop Powered Only):

Three choices set by DIP Switch:
-20 to +20% of SPAN.
True Zero (4 mA DC = 20% of SPAN).
+20 to +60% of SPAN.
Fine Adjustment: 25 Turn Potentiometer.

ENVIRONMENT

Operating Range: 0 to +40°C Standard
-20 to +60°C Optional
Storage Range: -10 to +60°C Standard
-30 to +70°C Optional

BACKLIGHT OPTION

Non-backlit
Positive Green Negative Green
Positive Red Negative Red
Positive Blue Negative Blue