

3½ DIGIT FIXED SCALING DIGITAL PANEL METERS

SPECIFICATIONS

Input Ranges: $\pm 199.9\text{mV DC}$, $\pm 1.999\text{V DC}$, $\pm 19.99\text{V DC}$.
Accuracy: 5V , $\pm 5\text{V}$; $\pm (0.1\% + 2 \text{ Counts})$.
 9V DC ; $\pm (0.1\% + 1 \text{ Count})$.
Digits: $3\frac{1}{2}$ (± 1999).
Display Type: 7-Segment LCD with Backlight Option.
Low Battery Indication: "BAT" for $< 7.2\text{V}$ Nominal (on 9V Model Only).
Height: $0.5"$ (12.7mm).
Polarity: Automatic, (-) Displayed.
Overload: Three lower order digits blank for > 1999 counts.
Decimal Point: 3 Position Selectable.
Conversion Rate: 2.5 Per Second.
Normal Mode Rejection: $30 \text{ dB @ } 60 \text{ Hz}$.
Common Mode Rejection: $> 86 \text{ dB}$.
Operating Range: 0 to 50°C . Optional -20 to 65°C .
Storage Range: -10 to 60°C . Optional -30 to 70°C .
Warm-up: 10 Minutes Typical.
Power Options: $+5\text{V DC}$ at 3mA .
 $\pm 5\text{V DC}$ at $180\mu\text{A}$.
 9V DC at $180\mu\text{A}$.

Backlight Power Requirements

Power (V DC)	Range (V DC)	Red (mA DC)	Green (mA DC)
5	4.75 ~ 5.25	165 Nominal 130~200 Max.	115 Nominal 75~160 Max.
12	11 ~ 13	80 Nominal 50~100 Max.	60 Nominal 40~80 Max.
24	22 ~ 26	40 Nominal 32~50 Max.	30 Nominal 20~40 Max.

4½ DIGIT FIXED SCALING DIGITAL PANEL METERS

SPECIFICATIONS

SIGNAL INPUT

Input Ranges: $\pm 199.99\text{mV DC}$, $\pm 1.9999\text{V DC}$, $\pm 19.999\text{V DC}$
Dual Range: Range Change Feature Rescales input 10:1
(i.e. $\pm 200\text{mV DC}$ becomes $\pm 2\text{V DC}$)
Configuration: Single Ended; 9V Powered DPM
Differential; 5V & $\pm 5\text{V}$ Powered DPM
Protection: 200mVDC ; $\pm 10\text{V}$ Peak,
 2VDC ; $\pm 100\text{V}$ Peak,
 20VDC ; $\pm 350\text{V}$ Peak.
Bias Current: 10pA Typ., 20pA Max.
Resistance: 200mV ; $> 100\text{M}\Omega$ ms.
 2V and 20V ; $1\text{M}\Omega$ ms.

ENVIRONMENT

Operating Range: 0 to 40°C . Optional -20 to 65°C .
Storage Range: 0 to 65°C . Optional -30 to 80°C .

PERFORMANCE

Conversion Rate: 2.5 Per Second.
Zero Adjust: Automatic
Normal Mode Rejection: $30 \text{ dB @ } 60 \text{ Hz}$.
Temperature Coefficient:
 200mVDC ; $\pm 50\text{ppm/C}$ Typ.,
($\pm 100\text{ppm/C}$ Max.)
 2VDC & 20V ; $\pm 100\text{ppm/C}$ Typ.,
($\pm 200\text{ppm/C}$ Max.)
Warm-up: 10 Minutes Typical.
Accuracy: $\pm (0.02\% \text{ fs} + 1 \text{ count})$ Typ.
 $\pm (0.06\% \text{ fs} + 1 \text{ count})$ Max.

POWER OPTION

9V DC Battery (7.2 to 12V) at 1.5mA DC
 $+5\text{VDC}$ (4.65 to 5.35V) at 3mADC
 $\pm 5\text{VDC}$ at 1.5mADC

CONNECTOR OPTION

Pins ($12/13$): $0.025"$ (0.65mm) Square Pins
Solder Pads: Optional; on Flat Pack only

DISPLAY

Digits: $4\frac{1}{2}$ (± 19999).
Display Type: 7-Segment LCD
Height: $0.5"$ (12.7mm).
Polarity: Automatic, (-) Displayed.
Overload: Four lower order digits blank for > 19999 counts.
Decimal Point: 4 Position Selectable.
Low Battery Indication: "BAT" for $< 7.2\text{V}$ Nominal
(on 9V Model Only).
Zero Adjust: Automatic
Display Hold: Standard

Backlight Power Requirements

Power (V DC)	Range (V DC)	Red (mA DC)	Green (mA DC)
5	4.75 ~ 5.25	165 Nominal 130~200 Max.	115 Nominal 75~160 Max.
12	11 ~ 13	80 Nominal 50~100 Max.	60 Nominal 40~80 Max.
24	22 ~ 26	40 Nominal 32~50 Max.	30 Nominal 20~40 Max.