

MODEL MDMV - MINIATURE D.C. VOLTMETER



- LCD, POSITIVE REFLECTIVE OR NEGATIVE TRANSMISSIVE WITH YELLOW/GREEN OR RED BACKLIGHTING
- 200 mV FULL SCALE
- AUTOMATIC ZEROING CIRCUIT
- SELECTABLE DECIMAL POINTS
- POLARITY INDICATION
- FIVE SELECTABLE DISPLAY ANNUNCIATORS
- PANEL MOUNT OR PC BOARD MOUNT

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FAX/WEB
DOC # 09002

Product Features

The MDMV is a small panel or printed circuit board mount digital voltmeter. With advantages of accuracy, size, and ease of installation, it is an ideal replacement for analog meters. The unit has a 3½-digit LCD display with 0.4" (10.2 mm) high digits. The displays are available in positive image reflective (black digits, reflective background) or negative image transmissive (illuminated digits, dark background) with red or yellow/green backlighting.

The integrated circuit is bonded directly to the printed circuit board and is mechanically protected. Internal electrical interface connections use elastomeric connectors to provide a corrosion resistant connection. This reliable construction also reduces the space requirements.

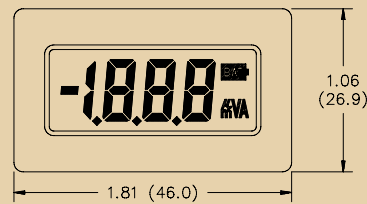
The MDMV module is designed to operate from a +5 VDC supply. The module measures input voltages from 0 to ±199.9 mV DC relative to the supply common.

Auto-zeroing is provided by the module, therefore no zero adjustment is required. If the input signal exceeds the input range, the unit display will indicate an overrange condition.

The module has three selectable decimal point positions and five selectable annunciators (BAT, V, A, m, μ). The BAT (Battery) annunciator is used to indicate a low battery condition, while the others are used to indicate Volts and Amperes.

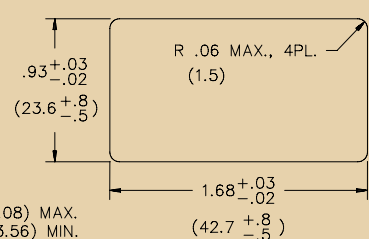
DIMENSIONS "In inches (mm)"

PANEL MOUNT UNIT

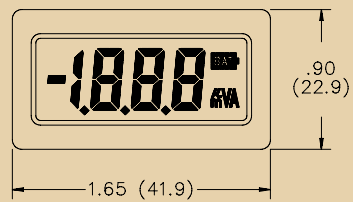


NOTE: BACKLIGHT MODELS: 0.50" (12.7)
REFLECTIVE MODELS: 0.31" (8.0)

PANEL CUT-OUT

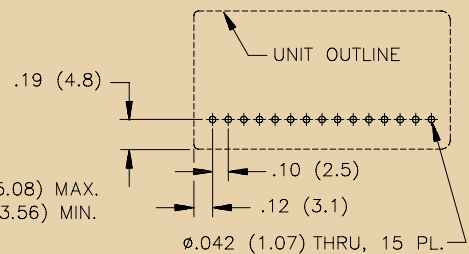


PRINTED CIRCUIT BOARD MOUNT UNIT



NOTE: BACKLIGHT MODELS: 0.56" (14.2)
REFLECTIVE MODELS: 0.37" (9.4)

RECOMMENDED PCB LAYOUT



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General Specifications

1. **DISPLAY:** 3 ½ digit, .4" (10 mm) LCD
2. **POWER:**
Reflective Versions: 5.0 VDC, 500 µA max.
Backlight Versions: 5.0 VDC, 25 mA max.
3. **DECIMAL POINTS:**
Selectable to read tenths, hundredths, or thousandths.
4. **ANNUNCIATORS:**
5 Selectable Annunciators, BAT, V, A, µ and m
5. **CONSTRUCTION:** High Impact Black Plastic Case.
6. **ENVIRONMENTAL CONDITIONS:**
Operating Temperature: 0 to 70°C
Storage Temperature: -40 to 80°C
7. **WEIGHT:**
Reflective Panel Mount: 0.76 oz (11 g)
Reflective PCB Mount: 0.54 oz (7.8 g)
Backlight Panel Mount: 0.96 oz (13.6 g)
Backlight PCB Mount: 0.75 oz (10.4 g)

Input Specifications

1. **INPUT RANGE:** 0 to ± 199.9 mV DC

Ordering Information

MODEL NO	DESCRIPTION	PART NUMBER
MDMV	Panel Mount W/Reflective Display	MDMV0000
	Panel Mount W/Yel-Grn Backlighting	MDMV0010
	Panel Mount W/Red Backlighting	MDMV0020
	PC Board Mount W/Reflective Display	MDMV0100
	PC Board Mount W/Yel-Grn Backlighting	MDMV0110
	PC Board Mount W/Red Backlighting	MDMV0120
HWK7	MDM Cable Assembly	HWK70000