

# AcuVu 100

## Digital Display Panel Meter

### A Versatile Panel Meter For Use With the Edgetech Instruments AcuDew Dewpoint Transmitter.

The Edgetech Instruments' AcuVu 100 is a digital panel meter used primarily with Edgetech Instruments' process dewpoint transmitters. The AcuVu 100 combines 4 to 20 mA input signal capability with a 24 Vdc power supply, making it compatible with not only Edgetech Instruments dewpoint transmitters but most loop powered process transmitters.

In addition to providing 24 Vdc power and display capability, the AcuVu 100 also provides two fully programmable alarm relays that can be independently set across the full operating range of the transmitter, and an optically isolated retransmitted 4 to 20 mA analog output signal. The front panel incorporates a large 4-digit, 1/2-inch high, 14 segment LED display, two alarm indicator LED's and is rated for NEMA 4X (IP65) ingress protection.

#### Features:

- Large 4-digit, 1/2-inch (13.8mm) high, 14 segment LED display
- 24 Vdc output power supply for connected device
- Ideal for 2-wire loop powered transmitters
- Two user-programmable alarm relays
- Two alarm indicator LED's
- Retransmitted linear 4 to 20 mA analog output
- NEMA 4X (IP65) rated



**The AcuVu 100**

#### Applications:

- Compressed air
- Air separation
- Injection molding
- High purity gases
- Glove boxes
- Process gases
- Furnaces
- Pharmaceutical



**Edgetech Instruments**

ISO/IEC 17025:2005 Accredited  
ISO 9001:2015 Registered

## Technical Specifications

### Operating Temperature Range:

- -4°F to 140°F (-20°C to +60°C)

### Operating Relative Humidity Range:

- < 95% RH, non-condensing

### Input Power Supply:

- 20 to 300 Vdc, or 22 to 253 Vac, 50 to 60 Hz

### Output Power Supply For Connected Devices:

- 24 Vdc

### Internal Power Consumption:

- 3.2 W

### Maximum Power Consumption:

- 3.5 W

### Isolation Voltage Test/Operation:

- 2.3 KVac /250 Vac

### Display Response time:

- 0 to 90%, 100 to 10%: 0.4 s

### Wire Size, Pin 45 & 46 (Max):

- 1 x 0.06 inches (1.5 mm) stranded wire

### Wire Size, Others (Max):

- 1 x 0.1 inches (2.5 mm) stranded wire

### Dimensions:

- (H x W x D) 1.89 x 3.78 x 4.72 inches  
(48 x 96 x 120 mm)

### Panel Cutout Dimensions:

- 1.75 x 3.60 inches (44.5 x 91.5 mm)

### Ingress Protection:

- Front panel, NEMA 4 (IP56)

### Weight:

- 8 oz. (230 grams)

### Signal Input:

- 4 to 20 mA current loop
- Error detection: Cable loop break



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### Display:

- Display Readout: 4-digit, ½-inch (13.8mm) high, 14 segment LED
- Scrolled error display

### Signal Output:

- Programmable signal ranges: 0 to 20 or 4 to 20 mA dc (factory set)
- Load (max): 20 mA/800 Ω/16 Vdc
- Load stability: ≤ 0.01% of span/100 Ω

### Relay:

- Relay function: setpoint
- Deadband: 1% of range
- Max voltage: 250 V RMS
- Max current: 2 A ac
- Max ac power: 500 VA
- Max current at 24 Vdc: 1 A