

196 50,000 Count; 0-24mA Output Process Control DMM

Delivering test and measurement advantages for HVAC/R professionals worldwide

Test the TPI advantage



50,000 counts for high-resolution high accuracy applications.

Use the TPI 196 to install and troubleshoot process loops and controls.

MARKETS:

Water Purification
Chemical Processing
Oil & Gas
Power Generation
Pulp & Paper
Food & Beverage

APPLICATIONS:

4-20mA Transducers (Pressure, Strain, Temperature, Flow, Level)
Loop Powered Isolators
Two Wire Transmitters
Valve Positioners
Signal Conditioners
Process Scaled Indicators

Turn over for technical information and accessory part numbers.

The Value Leader™



tilt stand on 196 series DMM



separate battery & fuse compartment

LIMITED LIFETIME WARRANTY



196 DMM comes with protective boot and silicone rubber (CAT IV 600V) test leads.



196 Series Features

- **Large 50,000 count display** increases resolution and improves accuracy (1.7" x 2.75", 43mm x 70mm)
- **0-24mA output** for process controls
- **Triple Display** shows more than one reading simultaneously
- **51 Segment Analog Bar Graph** to catch fast AC fluctuations
- **Back Light** (LED Type) allows viewing in any light condition
- **Auto Range** automatically selects the best range for the measurement
- **Separate battery and fuse compartment** for easy replacement
- **Increased safety** with Silicone rubber 1,000V CAT III, 600V CAT IV, 10A test leads (CE & cUL listed)
- **Auto Power Off** DMM will automatically power down after approximately 15 minutes of inactivity to extend battery life. Disable Auto Power Off: Hold down the REC button and turn the meter on.
- **Diode Test** displays approximate forward bias voltage
- **Continuity and buzzer** to check for opens and shorts

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CO, Combustion &
Combustibles

Refrigeration Leak
Detectors

Digital Manometers

Temperature
Instruments

IAQ: Air
Flow/Humidity

Digital Multimeters
& Clamp-on Meters

GENERAL SPECIFICATIONS

| | |
|--------------------|--|
| Weight: | 530g |
| Operating Temp: | 0°C to 45°C (-32°F to 113°F) |
| Storage Temp: | -20°C to 60°C (-40°F to 140°F) |
| Relative Humidity: | 0% to 80%: (0°C to 35°C/32°F to 95°F) 0% to 70%: (45°C to 55°C/95°F to 131°F) |
| Temp Coefficient: | 0.1x (Specified Accuracy) per °C for temperature <18°C to>28°C |
| Power Supply | 9 Volt Alkaline Battery |

OPTIONAL ACCESSORIES

| | |
|------|--|
| A100 | Carrying case |
| A191 | RS232 cable & software for optically isolated IR port |
| A251 | AC Clamp-On Accessory for DMMs 0-400 Amps |
| A254 | Low Current AC/DC Adapter for DMMs 10 Amp range, 0.001 resolution 60 Amp range, 0.01 resolution |
| A256 | AC/DC Clamp-on Accessory for DMMs 0.1 A resolution |
| A296 | AC/DC Clamp-On Accessory for DMMs 0-1,000 Amps |
| A301 | Temperature Adapter with GK11M and battery, 0.1°C or °F resolution |
| A620 | 500psi Pressure/Vacuum Adapter for DMMs |

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| Specification | | 196(resolution) |
|---------------|-----------------|------------------|
| AC Volts | Max. reading | 750 |
| | Frequency | (45Hz to 450Hz) |
| | Best resolution | (0.0001V) |
| DC millivolts | Max. reading | 500 |
| | Best resolution | (0.001mV) |
| DC Volts | Max. reading | 1,000 |
| | Best resolution | (0.0001V) |
| DC Milliamps | Max. reading | 50 |
| | Best resolution | (0.0001mA) |
| DC Amps | Max. reading | 1 |
| | Best resolution | (0.01mA/0.0001A) |
| AC Miliamps | Max. reading | 50 |
| | Best resolution | (0.0001mA) |
| AC Amps | Max. reading | 1 |
| | Best resolution | (0.01mA/0.0001A) |
| Ohms | Max. reading | 500 |
| | Best resolution | (0.01 ohm) |
| Kohms | Max. reading | 500 |
| | Best resolution | (0.0001 Kohm) |
| Mohms | Max. reading | 50 |
| | Best resolution | (0.0001 Mohm) |
| Frequency Hz | Max. reading | 500 |
| | Best resolution | (0.001Hz) |
| Frequency KHz | Max. reading | 500 |
| | Best resolution | (0.0001kHz) |
| 0-24mA output | | yes |
| Safety | | CAT II 1,000V |
| | | CAT III 600V |
| Fuse | | 600V 500mA |
| | | 600V 1A |

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