DATEL’s DMS-20PC-DCM Series of self-powered, positive-reading, dc voltage monitors are great replacements for older, hard-to-read, analog panel meters. Simply connect a positive dc voltage across the rear terminals and the meters are fully operational — no additional components or power supplies are required! The large, 0.37”/9.4mm, LED displays can be easily read from 15 feet away. Four versions are available: +4.50-19.99Vdc (0.01V resolution), +8.0-50.0Vdc (0.1V resolution), +30.0-199.9Vdc (0.1V resolution) and +30-264Vdc (1V resolution). Built-in reverse polarity protection assures simple, trouble-free installation.

All DMS-20PC-DCM’s employ a high-resolution, 3½ digit A/D converter and precision metal-film resistors to achieve outstanding performance over an operating temperature range of –25 to +60°C. A rugged, epoxy-encapsulated, polycarbonate case provides excellent protection against moisture, shock and vibration. The DMS-20PC-DCM’s are designed to fit the same panel cutout as DATEL’s popular DMS-20PC-X-LM ac-line voltage monitors.

**Features**
- Self-powered, only two connections required
- +4.50-19.99Vdc, +8.0-50.0Vdc, +30.0-199.9Vdc and +30-264Vdc models
- Ideal replacements for analog panel meters
- Ultra-low power consumption (8mA typ.)
- 0.37”/9.4mm high, red or blue, LED displays
- Subminiature 1.38” x 0.88” x 1.0” packages
- Super reliable, epoxy-encapsulated, construction

**Functional Specifications**

<table>
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<th>Input Voltage Range:</th>
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| DMS-20PC-0-DCM     | +4.50 to +19.99Vdc                     
| DMS-20PC-1-DCM     | +8.0 to +50.0Vdc                      
| DMS-20PC-2-DCM     | +30 to +264Vdc                       
| DMS-20PC-8-DCM     | +30.0 to +199.9Vdc                   

**Current Consumption:**
- DMS-20PC-0/1-DCM: 13mA (max.)
- DMS-20PC-2/8-DCM: 7mA (max.)

**Performance**
- Sampling Rate: 2.5 readings/second
- Resolution:
  - DMS-20PC-0-DCM: ±0.01V
  - DMS-20PC-1/8-DCM: ±0.1V
  - DMS-20PC-2-DCM: ±1V

**Accuracy @ +25°C:**
- DMS-20PC-0-DCM: ±0.01V (typ.), ±0.03V (max.)
- DMS-20PC-1/8-DCM: ±0.1V (typ.), ±0.2V (max.)
- DMS-20PC-2-DCM: ±1V (typ.), ±2V (max.)

**Mechanical Dimensions:**
- 1.38” x 0.88” x 1.00”

**Display Type:**
- 3 & 3½ digit, LED, 0.37”/9.4mm

**Weight:**
- 1 ounce (28 grams)

**Case Material:**
- Polycarbonate

**6-32 screw torque:**
- 6-8 in-lb (0.7 – 0.9N-m)

**Environmental Operating Temperature:**
- –25 to +60°C

**Storage Temperature:**
- –40 to +75°C

**Humidity (Non-condensing):**
- 0 to 95%

† Operation and accuracy at inputs above or below these ranges are not specified.
Dimensions in inches (millimeters)
Tolerances: 2 PL Dec ±0.02 (±0.51)
3 PL Dec ±0.010 (±0.254)
Recommended panel cutout dimensions:
1.336 (33.93)/W × 0.838 (21.29)/H
Internal corner radii 0.032 (0.81) Max.

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