Murata Power Solutions’ 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 Murata Power Solutions’ popular DMS-20PC-X-LM ac-line voltage monitors.

### Functional Specifications

#### Input

- **Voltage Range:**
  - DMS-20PC-0-DCM: +4.50 to +19.99Vdc
  - DMS-20PC-1-DCM: +8.0 to +50.0Vdc
  - DMS-20PC-2-DCM: +30.0 to +199.9Vdc
  - DMS-20PC-8-DCM: +30–264Vdc
- **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% Relative

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See [www.murata-ps.com/dpm-availability](http://www.murata-ps.com/dpm-availability) for model-specific availability.

* Last time buy date is 3/31/2022.
MECHANICAL SPECIFICATIONS

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.

This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy:
Refer to: https://www.murata-ps.com/requirements/
Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.

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