

## News Release

**Fully integrated true-rms Voltmeters measure to 0V for complex AC voltages**



- *20VAC, 200VAC and 300VAC input ranges*
- *Range offers choice of AC and DC operating supply options*
- *Overcomes limitations of conventional average responding AC Voltmeters*
- *Rugged, encapsulated design provides moisture and vibration resistance*
- *9.4mm three-and-a-half digit bright red LED display*

Murata Power Solutions has introduced a new series of DATEL Voltmeters that overcome the limitations of conventional average-responding AC Voltmeters. The DATEL DMS-20RM series is able to measure the true-rms value of complex AC voltages and, with an input frequency range of 47 – 1kHz, is ideal for use in a wide range of applications including high-end consumer electronics, laboratory instrumentation and other equipment requiring precise AC line monitoring.

Conventional average-responding AC Voltmeters are limited in that they only produce accurate readings when measuring ideal sine-wave voltages. The DMS-20RM series can also measure and accurately display the true-rms value of triangle waves, square waves or other irregularly shaped waveforms with a full scale accuracy  $\pm$ of 0.4%. Also, unlike average-responding AC Voltmeters, the new modules from Murata Power Solutions are able to measure down to 0V as they use their own integrated, independent power supply that is fully isolated (up to 2kV) from the input AC signal.

The four-wire DATEL DMS-20RM series is available with a choice of three input ranges of 20VAC (with 0.01V resolution), 200VAC (0.1V resolution) or 300VAC (1V resolution). Depending on their application, customers can choose modules that operate from a supply voltage of either 85 to 264VAC or 10 to 40VDC. No external isolation transformers or auxiliary power supply conditioning components are required for the fully self-contained modules.

Rugged, fully encapsulated polycarbonate housings make the DMS-20RM series both moisture and vibration resistant. A large, three-and-a-half digit 9.4mm (0.37in.) bright red LED display allows easy reading of measurements from distances of up to approximately four metres (12 feet). Overall dimensions of the new modules (excluding PCB) are 35mm x 22.4mm x 25.4mm deep (1.38in. x 0.88in. x 1.00in. deep) and the units are packaged in a red filter case with a built-in bezel. Operating temperature range is -25°C to +60°C.

Ends

## **About Murata Power Solutions**

Murata Power Solutions ([www.murata-ps.com](http://www.murata-ps.com)) is headquartered in Mansfield, Massachusetts, with over 1,300 employees, and locations in the USA, Canada, England, France, Germany, Singapore, Japan and China. Murata Power Solutions designs, manufactures and distributes DC/DC Converters, AC/DC Power Supplies, Magnetics, Data Acquisition devices and Panel Meters, and offers these products in custom, standard and modified-standard variations. These products, which are built to exacting requirements in ISO9001:2000-approved facilities, are typically used worldwide within telecommunications, computing, industrial and other high-tech applications.

## **About Murata**

Based in Kyoto Japan, Murata Manufacturing Company Ltd is one of the world's leading providers of ceramic based components, sensors, and AC/DC and DC/DC power solutions. Founded in 1950, the company has over 34,000 employees worldwide, and over \$6.3 billion US in consolidated annual sales (as of March 31, 2008). Everywhere in the world, wherever you can reach, Murata's electronic components are always at work.

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