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News Release

Self-Contained true-RMS Ammeters provide compact and easy-to-use solution for measurement of non-sinusoidal AC currents



- *World's first true-RMS responding AC Ammeters with built-in current transformers (CTs)*
- *Five models provide current measurement from 0 to 50A*
- *Large easy-to-read red LED display*
- *Choice of either 120V or 220V (nominal) operation*

Murata Power Solution's new Datel ACA-20RM series are the world's first true-RMS responding digital AC ammeters with built-in current transformers (CTs). They are able to provide direct measurement of the true-RMS values of complex, non-sinusoidal AC currents of between 2A and 50A. Ideal for use in the latest computer and telecoms equipment, the compact, self-powered, single-board modules feature a large, easy-to-read LED display and provide an ideal replacement for older, less reliable, analog panel meters.

The Datel ACA-20RM series comprises five models with current ranges of: 0 – 0.2A (0.1mA resolution), 0-2A (0.001A resolution), 0 – 20A (0.01A resolution), 0-30A (0.1A resolution), and 0 – 50A (0.1A resolution). The modules are self-powered with both 120V (85-140VAC) and 220V (170-264VAC) versions available. Power consumption is less than 50mA.

The on-board, miniature, high-turns ratio CTs provide an accurate and straightforward way to measure AC load currents. The 50A model features an over-sized split core transformer to ease installation and accommodate wires

up to 4AWG (21.1mm²). All Datel ACA-20RM series True-RMS-AC Ammeters utilise low power consumption, bright red LED displays with easy-to-read full-size 9.4mm (0.37in.) high characters.

The completely self-contained design of the modules enhances reliability and means that no external components are required. Precision auto-zeroing circuitry, super-stable components and an RMS-to-DC converter circuit combine to give the Datel ACA-20RM series excellent performance.

A built-in bezel / filter assembly with metal fasteners allows straightforward assembly of the new Ammeters into customer applications. All models use UL and CSA recognised components and have overall dimensions of 46.38mm (1.826in.) X 32.51mm (1.280in.). Operating temperature range is 0°C to +60°C.

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About Murata Power Solutions

Murata Power Solutions (www.murata-ps.com), is headquartered in Mansfield, Massachusetts, with over 1,300 employees, and locations in the USA, Canada, England, France, Germany, Tokyo 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 ISO9000:2000-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 26,000 employees worldwide, and over \$4.9 billion US in consolidated annual sales (as of March 31, 2007). Everywhere in the world, wherever you can reach, Murata's electronic components are always at work.

Contact:

John Sutherby, Marketing Communications Department
Telephone: +1-508-339-3000 x 117

Issued by/more information from:

Simon Krelle, Pinnacle Marketing Communications Ltd
Tel: +44 (0) 7973 821036 Fax: +44 (0) 20 868 4373.
E-mail: simonk@pinnaclemarcom.com
Web: www.pinnacle-marketing.com

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