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C&D Technologies, Inc. United Kingdom
Power Electronics Division
www.cd4power.com

News Release

C&D Technologies introduces daylight-readable LED-display digital panel meters with auto-dimming function



- *3 ½ digit, 0.56-inch (14.2mm) high, super-bright display*
- *Compact moisture and vibration resistant integrated package, suitable for panel or PCB mounting*
- *Includes external brightness adjustment pin*
- *Offers significant benefits versus LCD displays*
- *Ideal for marine, industrial, and automotive applications*

With the launch of its DATEL branded 3½ digit DMS-30DR series, C&D Technologies is the first-to-market with an auto-dimming, daylight readable, LED-display digital



panel meter. The large, 0.56-inch (14.2mm) high, super-bright red LED is readable in direct sunlight without the need for special filters or shading devices.

The DMS-30DR series satisfies the growing market requirement for displays that can be used in very high ambient light conditions, but can also dim themselves in poorer light. Previously, applications that required daylight visibility necessitated the use of less reliable liquid crystal display (LCD) technology that incorporates complex, high power consumption, backlighting circuitry. A further drawback of LCD technology versus LED displays is its poor viewing angle; characters on the DMS-30DR series can be read at viewing angles of up to 180 degrees, in both vertical and horizontal planes.

Housed in a small, encapsulated, 12-pin DIP package with overall dimensions of 2.17" x 0.92" x 0.56" (55mm x 23mm x 14mm), the DMS-30DR series is suitable for either panel or PCB mounting. The rugged moisture and vibration resistant assembly integrates the display, autodim display drivers, a light sensor, reference circuitry and an A/D converter. Each package also incorporates a built-in colour filter and bezel. A user-accessible external brightness adjustment pin enables custom intensity settings or brightness matching in multi-display applications.

The DMS-30DR series comprises four panel meters offering a choice of four high-impedance differential input voltage ranges: $\pm 200\text{mV}$, $\pm 2\text{V}$, $\pm 20\text{V}$ and $\pm 200\text{V}$. Typical display accuracy is ± 1 count. All models operate from a single $+5\text{V}$ supply and draw as little as 7mA when operated in total darkness, and typically less than 200mA when operated at maximum brightness. CMRR for all devices is 86dB , and inputs are over-voltage protected to $\pm 250\text{V}$. Operating temperature range for all models is 0°C to $+60^\circ\text{C}$.

Note: The datasheet for this product can be found by visiting www.cd4power.com

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About C&D Technologies

C&D Technologies, Inc. is a technology company that produces and markets systems for the conversion and storage of electrical power, including telecom/industrial batteries, rectifiers and electronics. Corporate headquarters are in Blue Bell, Pennsylvania, USA and the company is traded on the NYSE under the symbol 'CHP'.

The Power Electronics Division of C&D Technologies, Inc. (www.cd4power.com) is headquartered in Mansfield, Massachusetts, USA. The division 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.

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