

# In brief

## New HMC compact instrument series from HAMEG Instruments

The new HMC compact instrument series is being introduced to the market by HAMEG Instruments in a space-saving half-19" format. All instruments in the series will be LXI certified and support the USB TMC class as well as the virtual COM port (VCP) to communicate via the USB interface. Models with permanently installed GPIB interface are also available.

The HMC8012 digital multimeter is starting off the new series. In contrast to the standard 5½ digit display usual in this class, it offers a 5¾ digit display, respectively 480,000 points, resulting in a measurement range that is four times higher without requiring range switching. It allows measurements in measurement category II with a voltage of up to 600 V; only 300 V are standard in this instrument class. With the HMC8012, current measurements across the entire range can be performed using only one connector. Additionally, an integrated wattmeter enables power measurements in the DC range.

With a basic measurement uncertainty of 0.015 % in the DC range, the multimeter shows up to three measured quantities simultaneously on its TFT color display. Altogether

it offers 12 measurement functions:  $V_{DC}$  and  $I_{DC}$ , true RMS  $V_{AC}$  and  $I_{AC}$ , frequency, two- and four-wire resistance, capacitance, continuity, diode, temperature and power. Extensive mathematics functions such as limit testing, min/max, mean value, offset, DC power, plus dB and dBm level round out the range of functions. The instrument provides true RMS measurements in the AC and DC ranges, which is a highly useful feature. Up to 200 measurements per second are possible, depending on the selected range.

All instruments in the HMC series will be LXI certified. They provide LXI core functionality, so users may access a web server to set up the instrument via a LAN interface. Interchangeable virtual instrument (IVI) drivers are another important requirement for obtaining LXI certification. For the HMC series,

HAMEG provides IVI.NET drivers based on Microsoft .NET framework version 4. Traditional LabVIEW and LabWindows™/CVI drivers will also be available for the new series.

In addition to a LAN interface, all HMC instruments include a USB device port. For this interface, users can select if the instrument is accessed via a virtual COM port (VCP) or via USB TMC class. All HMC instruments are optionally available with a built-in GPIB interface.

All products in the HMC series are CSA certified and can be ordered with calibration documents from the factory.

For more information, see <http://www.hameg.com/716.0.html>

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