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The OM4001

4 Channel Joulemeter/Ratiometer

Description

- four independent channels
- measure pulse energy or peak voltage independently on each channel
- rep rates up to 1000 pps
- wide dynamic range: pJ to J, µV to V
- ratio measurement: any two channels, any order
- autorange and baseline correction
- manual or remote configuration
- RS-232 and IEEE-488 interfaces
- statistical functions available: min, max, avg, std. dev, and missing pulse count
- data logger and trigger syncer
- unique configurable touchscreen display
- compatible with all Molectron Joulemeter probes

Molectron's ultimate multi-channel instrument, the OM4001, is also its most versatile. Four independent channels, each one compatible with all of Molectron's pyroelectric and silicon Joulemeter probes, pJ to J, UV to Far IR. A supertwist LCD and transparent touchscreen allow for hundreds of different display configurations, all completely customizable by the user.

The OM4001 is capable of a complete suite of statistical functions, including measuring minimum, maximum, average, and standard deviations.

Storing data for later download is easy with the OM4001's data logging capability. Capture up to 64000 energy readings at a time.

Remote control of the OM4001 is easy, using its exclusive Command and Control Language (CCL), which includes many commands not available from the front panel. Configure, set, and read the OM4001 without ever being near it.

A special version, the OM4001e, is designed specifically to measure accumulated energy levels, or *dose*.

A brilliant instrument, fast, customizable, and easy to use, the OM4001 is the essential tool to measure or analyze energy readings in any single or multi-channel system.

Specifications

System Accuracy	± 3%
Max. Full Scale Energy	20 J
Min. Full Scale Energy	20 pJ silicon 2 µJ pyro
Minimum Resolution	100 fJ silicon 10 nJ pyro
Max. Rep Rate	1000
Voltage Range (not applicable for the OM4001e)	2 mV - 20 V
Analog Output Range	0 - 2 V
Resolution	12 bits
Accuracy	1%
Linearity 10 - 100% FS	1%
Battery Life	NA
Dimensions (H x W x D)	130.2 x 304.8 x 279.4 (mm) 5.125" x 12" x 11"
Weight	7.89 kg 17.44 lbs

Molectron Detector, Inc.
7470 SW Bridgeport Road, Portland, OR 97224-7286
TEL: (800) 366-4340 INT'L: (503) 620-9069
FAX: (503) 620-8964 E-mail: info@molectron.com

Molectron Europe Ltd.
Cherwell Innovation Centre 77 Heyford Park,
Upper Heyford Bicester, Oxfordshire OX6 3HD, UK
TEL: +44 (0) 1869 238048 FAX: +44 (0) 1869 238001
E-mail: stevek@molectron.com

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