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Find the *Astronics / Giga-tronics / Ascor 3801* at our website: *Click HERE*

Model 3801

6.5 DIGIT DIGITAL MULTIMETER



Product Description

The 3801 provides a standard 6.5 Digit DMM along with an enhanced version which provides LCR functions in addition to the basic DMM functionality. In addition to the DMM capabilities, the module has an optional Industry Standard M-Module slot for expansion. M-Modules are available in a variety of instrument types from Digitizers to Function Generators, Counter Timers, A/D, D/A, etc. The 3801 has been designed with several exceptional features that make it stand out from competitive products.

- **M-Module Expansion Slot –** The optional Expansion slot allows the incorporation of any M-Module instrument into the DMM without taking up additional space in the chassis.

Capabilities

Standard DMM

- DC – Voltage and Current
- AC – Voltage and Current
- Resistance – 2 or 4 wire

Optional LCR (in addition to above)

- Resistance – 6 wire guarded
- Temperature
- Leakage Current
- Capacitance
- Inductance
- DCV Source
- ACV Source
- DC Current

OBSOLETE

Recommended Uses

- **General Purpose Test and Measurement –** This instrument provides 6.5 digit accuracy, and is useful for all general purpose Test and Measurement applications.

Low Cost GT-8300A 3U chassis with LAN and IEEE-488 Control



www.gigatronics.com | inquiries@gigatronics.com
800.726.4442 (USA) | +1 925.328.4650 (International)

Giga-tronics ASCOR

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Model 3801

6.5 DIGIT DIGITAL MULTIMETER

Model 3801-1004 (DMM)

DC Volts
- 4 Ranges (330mV, 3.3V, 33V, 330V)
- Accuracy 0.004%

DC Current
- 4 Ranges (3.3mA, 33mA, 330mA, 2.5A)
- Accuracy 0.1%

AC Volts
- 4 Ranges (330mV, 3.3V, 33V, 250V)
- Accuracy 0.9% (20Hz – 50KHz)

AC Current
- 4 Ranges (3.3mA, 33mA, 330mA, 2.5A)
- Accuracy 0.9% (20Hz – 50KHz)

Resistance 2-wire
- 5 Ranges (330Ω, 3.3KΩ, 33KΩ, 330KΩ, 3.3MΩ)
- Accuracy 0.003%

Resistance 4-wire
- 4 Ranges (330Ω, 3.3KΩ, 33KΩ, 330KΩ)
- Accuracy 0.003%

Spec's from Signametrics SM2040 Series DMM

OBSOLETE

Model 3801-1005 (DMM plus LCR meter)

All of the Specifications of the 3801-1004 plus:

Resistance 6-wire
- 5 Ranges (33Ω, 330Ω, 3.3KΩ, 33KΩ, 330KΩ)
- Accuracy 0.03%

Temperature
- Range -150°C to 650°C
- Accuracy depends on RTD selected

Leakage Current
- 3 Ranges (100nA, 1000nA, 3300nA)
- Accuracy 2%

Capacitance
- 7 Ranges (10nF, 100nF, 1uF, 10uF, 100uF, 1mF, 10mF)
- Accuracy 2%

Inductance
- 6 Ranges (33uH, 330uH, 3.3mH, 33mH, 330mH, 3.3H)

Peak-to-Peak, Crest, and Median Functions
- 4 Ranges (330mV, 3.3V, 33V, 250V)
- Accuracy 1.5%

Timing Functions
- Timing Threshold DAC
- ACV Frequency
- ACI Frequency
- Duty Cycle
- Pulse Width

AC/DC Voltage and Current Source
- DCV Range -10.0V to +10.0V
- ACV Range 0-20V Peak-to-Peak
- DCI Ranges (1.25uA, 12.5uA, 125uA, 1.25mA, 12.5mA), Accuracy 0.2%

Ordering Information

Model #	Description	Manufacturer #
3802-1004	DMM (No M-Module Capability)	90401280-008
3801-1004	DMM (with M-Module Capability)	90401280-010
3802-1005	DMM / LCR (No M-Module Capability)	90401280-009
3801-1005	DMM / LCR (with M-Module Capability)	90401280-011

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