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TECHNOLOGY GROUP

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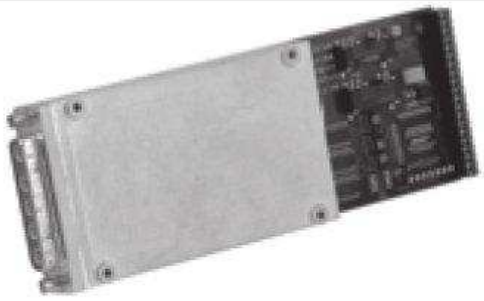
Expert team | Trust guarantee | 100% satisfaction

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Find the *MEN Mikro M76* at our website: *Click HERE*

M76 – Digital Multimeter

- **Up to 22 bits resolution (6 ½ digits)**
- **Max. resolution 50nV, 5nA, 50µOhm**
- **0.01% DC accuracy**
- **20 measuring ranges**
- **DC: ±125mV..±500V; ±12.5mA..±2.5A**
- **AC: 250mV RMS..250V RMS; 25mA RMS..2.5A RMS**
- **Input voltages over 60V DC and 42V AC -> EN60950**
- **Resistance: 0..2.5 MOhm**
- **True RMS measurements**
- **Autocalibration**
- **Optical isolation**

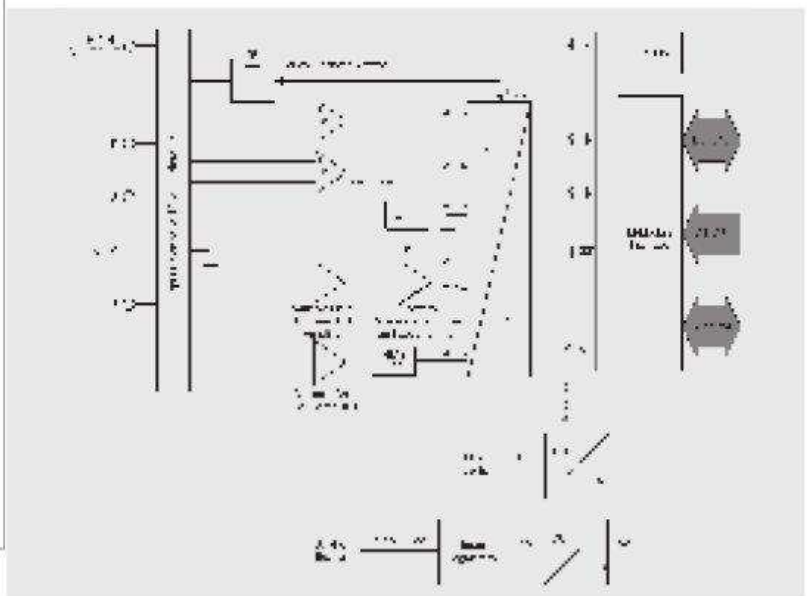


Resolution
- 22.5 bits @ 10Hz sampling
- 20 bits @ 50/60 Hz sampling
- 11 bits @ 1kHz sampling

DC Voltage Measurement
- Maximum input voltage if no further safety measures are taken:
  - 60V DC / 42V AC for all measuring ranges
- Maximum input voltage if requirements of EN60950 are fulfilled through additional safety measures (see user manual):
  - High-voltage input: 500V DC for 500V range
  - Normal input: 125V DC for 125mV, 1.25V, 12.5V and 125V range
- Measuring ranges:
  - -125mV..+125mV, -1.25V..+1.25V, -12.5V..+12.5V, -125V..+125V, -500V..+500V
- Measuring accuracy:
  - 24 hours, 23°C ±1°C: error < 0.025%
  - 90 days, 23°C ±5°C: error < 0.05%
  - Temperature coefficient 0°C..+55°C: error < 0.01%
- Input impedance:
  - 40 MOhm @ 500V input (HV)
  - 10 MOhm @ 125V and 12.5V range
  - > 1 GOhm @ 1.25V and 125mV range
- Input current: max. 10pA @ 23°C
- CMRR: 100dB @ 50/60Hz
- NMRR: 60dB @ 50/60Hz

AC Voltage Measurement
- Maximum input voltage if no further safety measures are taken:
  - 60V DC / 42V AC for all measuring ranges
- Maximum input voltage if requirements of EN60950 are fulfilled through additional safety measures (see user manual):
  - High-voltage input: 250V AC
  - Normal input: 60V AC
- Measuring ranges:
  - 250mV RMS, sine 40Hz..100kHz, error < 5%
  - 2.5V RMS, sine 40Hz..100kHz, error < 1%
  - 25V RMS, sine 40Hz..100kHz, error < 1%
  - 250V RMS (high-voltage input), sine 40Hz..100Hz, error < 1%
- Crest factor: max. 4
- Measuring accuracy @ 50/60Hz:
  - 24 hours, 23°C ±1°C: error < 0.5%
  - 90 days, 23°C ±5°C: error < 1%
  - Range error < 1%
- Input impedance:
  - High-voltage input: 40 MOhm
  - Normal input: 1 MOhm
- Input current: max. 10pA @ 23°C
- CMRR: 100dB @ 50/60Hz

DC Current Measurement
- Max. input voltage if no further safety measures are taken: 60V DC for all meas. ranges
- Measuring ranges:
  - -12.5mA..+12.5mA, -125mA..+125mA
  - -1.25A..+1.25A, -2.5A..+2.5A
- Measuring accuracy:
  - 24 hours, 23°C ±1°C: error < 0.025%
  - 90 days, 23°C ±5°C: error < 0.05%
  - Temperature coefficient 0°C..+55°C: error < 0.01%
- Shunt: 1 Ohm @12.5mA, 125mA range / 0.1 Ohm @ 1.25A, 2.5A range



AC Current Measurement
- Maximum input voltage if no further safety measures are taken:
  - 42V AC for all measuring ranges
- Sine 40Hz..100Hz
- Measuring ranges:
  - 25mARMS, 250mARMS, 2.5ARMS
- Crest factor: max. 4
- Measuring accuracy:
  - 24 hours, 23°C ±1°C: error < 0.5%
  - 90 days, 23°C ±5°C: error < 1%
  - Range error < 1%
- Shunt:
  - 1 Ohm @ 25mA, 250mA range
  - 0.1 Ohm @ 2.5A range

Resistance Measurement
- Measuring ranges:
  - 250 Ohm, 2.5 kOhm, 25 kOhm, 250 kOhm, 2.5 MOhm
- Measuring accuracy 250 Ohm, 2.5 kOhm, 25 kOhm, 250 kOhm:
  - 24 hours, 23°C ±1°C: error < 0.1%
  - 90 days, 23°C ±5°C: error < 0.2%
  - Temperature coefficient 0°C..+55°C: error < 0.01%
- Measuring accuracy 2.5 MOhm:
  - 24 hours, 23°C ±1°C: error < 1%
  - 90 days, 23°C ±5°C: error < 2%
  - Temperature coefficient 0°C..+55°C: error < 0.1%
- Measuring modes: 2- and 4-wire
- Maximum measuring voltage: 2.5V

Peripheral Connections
- Via front panel on a 5-pin 5W5S D-Sub receptacle connector with high-voltage contacts (recommended)
- Via carrier-board connector (rear-panel I/O) (not recommended)

M-Module™ Characteristics
- A08, D16, INTA, IDENT

Safety
- THE M76 DOES NOT COMPLY WITH THE REQUIREMENTS OF THE EN60950 STANDARD. THE MAXIMUM INPUT VOLTAGES FOR ALL TYPES OF MEASUREMENTS ARE 60V DC AND 42V AC. HOWEVER, THE M76 WAS DESIGNED TO PROVIDE HIGH-VOLTAGE FUNCTIONALITY. IF YOU NEED TO APPLY VOLTAGES HIGHER THAN 60V DC AND 42V AC, TAKE APPROPRIATE MEASURES TO KEEP THE SAFETY REQUIREMENTS OF EN60950.
- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

Mechanical Specifications
- Dimensions: conforming to M-Module™ Standard
- Weight: 84g

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