

DAQP-DMM

- **Input ranges:**
- **Bandwidth:**
- **Isolation:**
- **Signal connection:**

Isolated high voltage module

- 6 ranges from ± 10 V to ± 1000 V
- 30 kHz max.
- 1.5 kV_{RMS}
- Safety banana sockets



DAQP-DMM

Module specifications

DAQP-DMM	
Input ranges	$\pm 10, \pm 40, \pm 100, \pm 200, \pm 400, \pm 1000$ V
Range selection	Push button or software
DC accuracy	0.1 % of reading ± 0.1 % of range
Gain linearity	Better than ± 0.03 %
Gain drift	Typ. 20 ppm/ $^{\circ}$ K, max. 40 ppm/ $^{\circ}$ K
Input resistance	10 MOhm (± 0.1 %)
Bandwidth (-3 dB ± 1.5 dB @ f ₀)	
10 V to 40 V range	Typical 20 kHz
100 V to 200 V range	Typical 25 kHz
400 V to 1000 V range	30 kHz
Filters (lowpass)	10 Hz, 100 Hz, 1 kHz, 3 kHz (± 1.5 dB @ f ₀)
Filter selection	Push button or software
Filter characteristics	Butterworth
@ 0.01, 0.1, 1, 3 kHz	40 dB / decade (12 dB / octave)
@ 30 kHz	100 dB / decade (30 dB / octave)
Typ. SNR @ max. bandwidth	
10 V range	60 dB
100 V range	76 dB
1000 V range	81 dB
Typical CMRR	73 dB @ 0 Hz 70 dB @ 50 Hz 57 dB @ 400 Hz
Isolation voltage	1.5 kV _{RMS}
Output voltage	± 5 V
Output resistance	< 10 Ohm
Output current	Max. 5 mA
Output protection	Continuous short to ground
RS-485 interface	Yes
Power supply voltage	± 9 V _{DC} (± 10 %)
Power consumption	Typical 0.65 W