DAQP-HV

Isolated high voltage module

- *Input ranges:* 7 ranges (±20 V to ±1400 V)
- *Bandwidth:* 300 kHz
- *Isolation:* 1.8 kV_{RMS} line to line
  1.4 kV_{RMS} line to ground
- *Signal connection:* Banana sockets

DAQP-HV-B

Module specifications

	DAQP-HV
Input ranges	±20 V, ±50 V, ±100 V, ±200 V, ±400 V, ±800 V, ±1400 V
DC accuracy 20 V and 50 V 100 V to 1400 V	 ±0.05 % of reading ±40 mV ±0.05 % of reading ±0.05 % of range
Gain linearity	0,03 %
Gain drift range	Typically 20 ppm/°K (max. 50 ppm/°K)
Offset drift 20 V to 100 V 200 V to 1400 V	 typical 0.5 mV/°K max. 4 mV/°K typical 5 ppm/°K max. 20 ppm of Range/°K
Long term stability	100 ppm/sqrt (1000 hrs)
Input resistance	10 MOhm
-3 dB Bandwidth	300 kHz(1)
Filter selection	Push button or software
Filter (lowpass)	10 Hz, 30 Hz, 100 Hz, 300 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz
Filter characteristics	10 Hz to 100 kHz: Butterworth or Bessel 40 dB/dec (2nd order; ±1.5 dB @ f0) 300 kHz: Bessel 60 dB/dec (3rd order; 0 to -3 dB @ 300kHz)
Typical SFDR and SNR 50 V 200 V 1400 V	300 kHz 100 kHz 10 kHz SFDR SNR SFDR SNR SFDR SNR 98 76 101 81 dB 108 90 dB 98 84 101 89 dB 108 91 dB 98 86 102 91 dB 107 92 dB
Typical CMRR	>80 dB @ 50 Hz 70 dB @ 400 Hz 60 dB @ 1 kHz 48 dB @ 10 kHz
Isolation voltage	Line to Ground 1.4 kVrms Line to Line 1.8 kVrms
Protection Surge (1.2/50) Burst (5 kHz)	CAT III 600 CAT IV 300 ±4000 V ±4000 V
Output voltage	±5 V
Output resistance	<10 Ohm
Output current	5 mA
Output protection	Short to ground for 10 sec.
Power supply	±9 V_{DC} ± 1%
Power consumption	0.7 W
Power On default settings	Software programable
Interface	RS-485

(1) 300 kHz exclusively for Bessel filter characteristic