

## DAQP-LA

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

## Isolated current module

**DAQP-LA-B: 0.1 A, 0.3 A, 1 A, 3 A, 10 A peak, 30 A peak,**  
**DAQP-LA-B-S1: 2 mA, 6 mA, 20 mA, 60 mA, 200 mA, 0.6 A,**  
**300 kHz**  
**Safety banana sockets**



### Module specifications

	DAQP-LA-B	DAQP-LA-B-S1
Input resistance (Shunt)	0.1 Ohm	5 Ohm
Shunt inductance	<10 nH	<10 nH
Input ranges	0.1 A, 0.3 A, 1 A, 3 A, 10 A peak, 30 A peak	2 mA, 6 mA, 20 mA, 60 mA, 200 mA, 0.6 A
Continuous current	max. 5 A <sub>RMS</sub>	max. 0.6 A
Peak current	30 A max. 10 ms; 10 A max. 100 ms	3 A max. 10 ms; 1 A max. 100 ms
DC accuracy		
100 mA and 300 mA	±0.05 % of reading ±300 µA	±0.05 % of reading ±6 µA
1 A to 30 A	±0.05 % of reading ±0.05 % of range	±0.05 % of reading ±0.05 % of range
2 mA and 6 mA		
20 mA to 600 mA		
Offset drift		
100 mA and 300 mA	typ. max.	typ. max.
1 A to 30 A	12 20 µA/°K	0.24 0.4 µA/°K
2 mA and 6 mA	20 40 ppm of Range/°K	20 40 ppm of Range/°K
20 mA to 600 mA		
Gain linearity	0.03 %	
Gain drift range	Typically 20 ppm/°K (max. 50 ppm/°K)	
Long term stability	100 ppm/sqrt (1000 hrs)	
Bandwidth (-3 dB)	300 kHz <sup>(1)</sup>	
Filter selection	Push button or software	
Filters (low pass)	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 @ f <sub>0</sub> ) 300 kHz: Bessel 60 dB/dec (3rd order; 0 to -3 dB @ 300kHz)	
Typical SFDR and SNR		
	300 kHz	100 kHz
	SFDR SNR	SFDR SNR
100 mA	95 dB 64 dB	95 dB 67 dB
1 A	102 dB 82 dB	103 dB 85 dB
30 A	104 dB 89 dB	103 dB 89 dB
Isolation voltage	Input to Ground 1.4 kV <sub>RMS</sub>	
Protection	CAT III 300 V CAT II 600 V	
Output voltage	±5 V	
Output resistance	<10 Ohm	
Output current	5 mA	
Power On default settings	Software programmable	
Output protection	Short to ground for 10 sec.	
Power supply	±9 V <sub>DC</sub> ± 1%	
Power consumption	0.7 W	
Interface	RS-485	

<sup>(1)</sup> 300 kHz exclusively for Bessel filter characteristic