

**DAQP-ACC-A**

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

**IEPE® module**

- ±5 V, ±1.66 V, ±500 mV, ±166 mV, ±50 mV
- 4 mA or 8 mA
- 300 kHz
- none
- BNC socket

**Module specifications**

DAQP-ACC-A	
Ranges	±5 V, ±1.66 V, ±500 mV, ±166 mV, ±50 mV
Gain	1, 3, 10, 30, 100
Range / gain selection	Push button or software
Gain error	0.5 %
Sensor types	IEPE® sensors only
Sensor excitation	4 or 8 mA (software selection), 10 %, up to 28 V <sub>DC</sub>
Input impedance	5 or 7 MOhm (depending on time constant), in parallel with 1.2 nF
Input voltage range	4 to 19 V
Voltage < 4 V	„Shortcut“ detection
Voltage > 19 V	„No sensor“ detection
Input protection	
IN+	max. -10 to 28 V
IN- (shield)	max. 20 mA
Bandwidth (-3 dB)	From selected highpass filter to 300 kHz (+2 to -5 dB @ fg)
Filters (highpass)	0.5 Hz and 5 Hz (software selection)
0.5 Hz filter	0.32 s time constant
5 Hz filter	0.032 s time constant
Filters (lowpass)	1 kHz, 10 kHz, 100 kHz, 300 kHz other filter steps available as an option on request
Filter selection	Push button or software
Filter characteristics	Butterworth
up to 100 kHz	100 dB / decade (30 dB / octave)
300 kHz	80 dB / decade (24 dB / octave)
Typical SFDR and SNR	
	300 kHz bandwidth      100 kHz bandwidth      10 kHz bandwidth
	SFDR      SNR      SFDR      SNR      SFDR      SNR
5000 mV	92 dB      90 dB      100 dB      91 dB      103 dB      93 dB
500 mV	88 dB      85 dB      100 dB      89 dB      100 dB      92 dB
50 mV	71 dB      68 dB      90 dB      73 dB      82 dB      80 dB
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 <sub>DC</sub> (±10 %)
Power consumption	Typical 0.8 to 1.0 W (depending on sensor)