DAQP-ACC-A *IEPE® module*

- *Input ranges:* *±5 V, ±1.66 V, ±500 mV, ±166 mV, ±50 mV*
- *Excitation current:* *4 mA or 8 mA*
- *Bandwidth:* *300 kHz*
- *Isolation:* *none*
- *Signal connection:* *BNC socket*

DAQP-ACC-A

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_{DC}					
Input impedance	5 or 7 MOhm (depending on time constant), in parallel with 1.2 nF					
Input voltage range Voltage < 4 V Voltage > 19 V	4 to 19 V ‚Shortcut' detection ‚No sensor' detection					
Input protection IN+ IN- (shield)	 max. -10 to 28 V max. 20 mA					
Bandwidth (-3 dB)	From selected highpass filter to 300 kHz (+2 to -5 dB @ fg)					
Filters (highpass) 0.5 Hz filter 5 Hz filter	0.5 Hz and 5 Hz (software selection) 0.32 s time constant 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 up to 100 kHz 300 kHz	Butterworth 100 dB / decade (30 dB / octave) 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_{DC} (±10 %)					
Power consumption	Typical 0.8 to 1.0 W (depending on sensor)					