

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 connector


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 | 4 to 19 V |
| Voltage < 4 V | „Shortcut“ detection |
| Voltage > 19 V | „No sensor“ detection |
| 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) |
| Typ. SNR @ max. bandwidth | |
| Gain 1 and 3 | 94 dB |
| Gain 10 | 91 dB |
| Gain 30 | 80 dB |
| Gain 100 | 73 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) |