

**DAQP-FREQ-A**

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

**Isolated frequency to voltage module**

100 Hz, 1 kHz, 5 kHz, 20 kHz, 100 kHz, 200 kHz  
9-pin D-SUB socket

**Module specifications**

DAQP-FREQ-A	
Input ranges	100 Hz, 1 kHz, 5 kHz, 20 kHz, 100 kHz, 200 kHz
Minimum input	2 % of selected range
Range selection	Push button or software
Accuracy	±0.05 % (from 4 % to 100 % of range)
Rated input voltage	33 V <sub>RMS</sub> <sup>1)</sup> , 46.7 V <sub>PEAK</sub> <sup>1)</sup> , 70 V <sub>DC</sub> according to EN-61010-1 and EN-61010-2-30
Input resistance	1 MOhm
Input filters	100 Hz, 1 kHz, 5 kHz, 20 kHz, 100 kHz, 200 kHz
Filter selection	Push button or software
Coupling	DC or AC (software programmable)
Trigger level	10 mV to 130 V (software programmable)
Sensor supply	+12 V <sub>DC</sub> ; ±9 V <sub>DC</sub> (not isolated)
Isolation	350 V <sub>RMS</sub> <sup>1)</sup>
Overvoltage protection	±500 V <sub>PEAK</sub> / 350 V <sub>RMS</sub>
Output filter	3 ranges with 1.5, 30 and 500 ms (10 - 90 %)
Filter characteristics	Butterworth, 60 dB / decade (18 dB / octave)
Selection	Automatically according to input range slow (default) or fast output filter selectable within the input range
Output signals	±5 V according to input frequency TTL level trigger output signal
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> (±5 %)
Power consumption	Typical 1.0 W

<sup>1)</sup> Although the rated input voltage is 33 V<sub>RMS</sub>, 46.7 V<sub>PEAK</sub> or 70 V<sub>DC</sub> according to EN-61010-1 and EN-61010-2-30, the galvanic isolation has been tested with 350 V<sub>RMS</sub> for 1 min.