DAQP-CHARGE-A   Dynamic charge module

- **Input ranges:**
   IEPE® input: 0, 20, 40, 60 dB (±5 V, ±500 mV, ±50 mV, ±5 mV)
   Charge input: 5, 50, 500, 5000, 50000 pC
- **Bandwidth:**   50 kHz
- **Isolation:**   none
- **Signal connection:**   BNC socket
                                             (adapter BNC to MICRODOT included)

DAQP-CHARGE-A

Module specifications

DAQP-CHARGE-A	
Supported sensors	IEPE® and charge sensors
Sensor type selection	Push button or software

Input ranges
  IEPE® input
  Charge input
	
	0, 20, 40, 60 dB (±5 V, ±500 mV, ±50 mV, ±5 mV)
	5, 50, 500, 5000, 50000 pC

Gain accuracy	1 % F.S.
Input range finetuning	programmable
Range selection	Push button (fixed) or software (all)
Integration	Single (velocity) or double (displacement), 0 dB at 15.9 Hz

LED indicators
  Range and filter
  ICP LED
  OVL LED
  A, V and D LED
	
	5 LEDs
	Active with connected IEPE® sensor, inactive for charge input
	Overload control (output voltage > 5 V)
	Indicator for acceleration, velocity and displacement output

Constant current source	3.2 to 5.6 mA, > 24 V
Filters (highpass)	0.1 Hz, 1 Hz, 10 Hz (±2 dB @ f0)
Filters (lowpass)	100 Hz, 1, 3, 10, 50 kHz (±2 dB @ f0)
Filter selection	Push button or software
Filter characteristics	Butterworth 80 dB / decade (24 dB / octave)
Bandwidth (-3 dB)	0.1 Hz to 50 kHz (±2 dB @ f0)

Typ. SNR @ max. bandwidth
  5000 pC
  500 pC
  50 PC
  5 pC
  5 pC
	
	90 dB
	87 dB
	73 dB
	54 dB
	60 dB @ 10 kHz

Output voltage	±5 V (±6 V peak voltage)
Output noise	< 8 mV (all ranges with 50 kHz filter)
RS-485 interface	Yes
Power supply voltage	±9 V_{DC} (±10 %)
Power consumption	0.6 W to 1.2 W (depending on sensor)*
*) **CAUTION:** The following systems only support 10 DAQP-CHARGE-A modules at once, due to high start-up current. DEWE-2010 series, DEWE-2500 series, DEWE-5000 series, DEWE-30-16 with DC option, DEWE-50-USB2 with DC option	