

Converts the charge output from the AP Tech piezoelectric transducers to a low-impedance voltage output. The converter-input connects directly via a 10-32 microdot-connector to the cable of the vibration transducers; the output signal is available from a standard BNC-connector. AP5000 is powered over the signal-line from a constant current source such as found in most modern signal-analyzers.

In-line charge converter Type AP5000

Conversion factor	10 mV/pC
Noise	< 5.10-6 pC/pF ⁽¹⁾
Dynamic range	> 100 dB
Frequency range	0.5 to 25,000 Hz
Max. input charge	500 pC
Temperature range	-40 to +85°C
Input capacitance range	10 to 10,000 pF
Excitation voltage	+18 to +30 Volt DC
Constant current	3.6 to 20 mA
Output impedance	< 500
Output bias voltage	+10 to +12 Volt DC
Settling time	5 s
Input connector	10-32 UNF
Output connector	BNC
Dimensions	12.5 mm round, 55 mm long ⁽²⁾
Weight	36 gram



¹ Noise depending on transducer capacitance

² Including connectors