

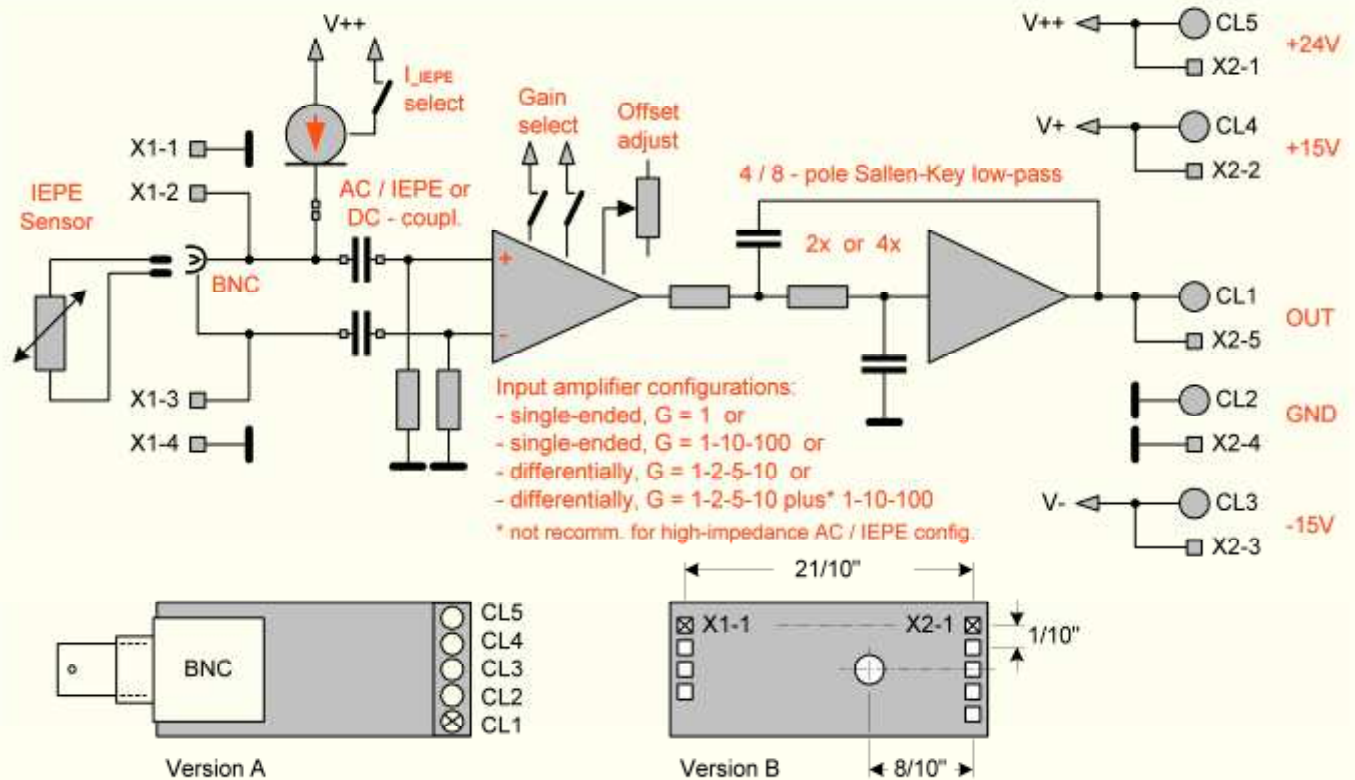
Create your own **IEPE** (ICP™) transducer measuring device using our versatile signal conditioning front end **ICP-FM3** - feature **Active Filters**

analog design

by EIGNER MESSTECHNIK®

DC / AC or IEPE (ICP™) amplifier plus 4 / 8-pole low-pass filters

- Signal conditioner for the well-known ICP™ or any other smart IEPE sensors
- Applications: vibration, acceleration, strain and materials testing, general DC / AC amplification
- I_{IEPE} excitation: select. constant current 2 - 4 - 6 - 8 mA +/- 5% (-10...70°C)
- AC bandwidth: 0.5Hz - 20kHz (-3dB)
- DC/AC gain: 1 - 1000 *
steps 1-2-5-10 and 1-10-100
* gain > 100 not recomm. for AC / IEPE
- DC offset: adjustable (recomm. gain > 1)
- Low-pass filters: ($F_{cut-off}$ 500Hz - 10kHz) config.
 - no filters
 - 4-pole Butterworth or Bessel
 - 8-pole Butterworth or Bessel
- AC input/output signal range
 - @ V_{Supply} +/-12V: $V_{Signal_IN-OUT} \geq 0... +/- 8V$
 - @ V_{Supply} +/-15V: $V_{Signal_IN-OUT} \geq 0... +/- 10V$



Version A - suitable for front panel mounting



Version B - suitable for main board mounting

Features

- versatile DC / AC / IEPE front end & active filters
- gain or I_{IEPE} selectable by switches / jumpers
- power supply +/-12 or +/-15V and +24V
- easy to connect - screw clamp (version A)
- compact size PCB 56*18mm² (4-layer design)
- customer specific config. of the input-amps, I_{IEPE} excitation and the filter type and cut-off

www.eigner-messtechnik.de

ICP™ trademark of PCB Group Inc.

07 / 2014