

# IEPE (ICP<sup>®</sup>) signal conditioning module ICP-FM4.2

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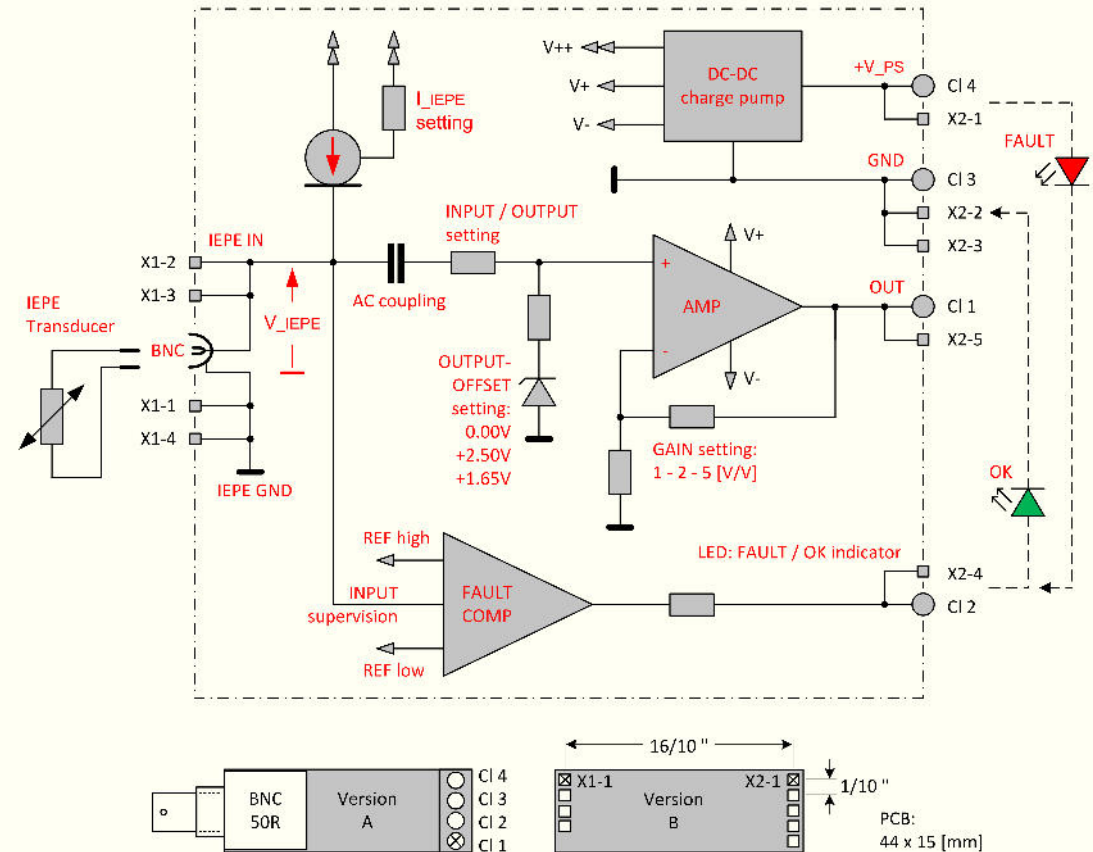
## Single-channel IEPE (ICP<sup>®</sup>) excitation and amplifier

- Signal conditioner for smart IEPE transducers
- Applications: vibration, acceleration, sonic and acoustic noise etc.
- Power supply ( $V_{PS}$ ): single 12 – 15 (max) VDC < 0.5W
- $V_{IEPE}$  excitation (approx.  $V_{PS} * 2 - 3V$ )  
 @  $V_{PS} = 12V$ :  $V_{IEPE} \leq 21V \rightarrow$  Input signal range  $0 - \pm 8V$   
 @  $V_{PS} = 15V$ :  $V_{IEPE} \leq 27V \rightarrow$  Input signal range  $0 - \pm 10V$
- AC Bandwidth: 0.5Hz – 25kHz (-3dB)
- THD+N: 0.015% @ 1kHz

Please specify when ordering:

Input range	Output range	Output offset	Gain (intern)
A: $0 - \pm 10V$	$0 - \pm 10V$	0.00V	1
B: $0 - \pm 10V$	$0 - \pm 5V$	0.00V	1
C: $0 - \pm 5V$	$0 - \pm 10V$	0.00V	2
D: $0 - \pm 2V$	$0 - \pm 10V$	0.00V	5
E: $0 - \pm 10V$	$0 - \pm 5V$	+2.50V	1
F: $0 - \pm 5V$	$0 - \pm 5V$	+2.50V	1
G: $0 - \pm 10V$	$0 - \pm 3.3V$	+1.65V	1
H: $0 - \pm 5V$	$0 - \pm 3.3V$	+1.65V	1
X: $0 - \pm X_a$	$0 - X_b$	+ $X_c$	$X_d$ User specified

- $I_{IEPE}$  excitation: 2 – 4 – 8 [mA] (others on request)
- GAIN: 1 – 2 – 5 [V/V] (depending on input/output/offset)
- LED **FAULT**/**OK**: A – Input signal **out of range** B – Input signal **OK**
- Version: A – (BNC, terminal) B1 – (pins) B2 – (short pins)



[www.eigner-messtechnik.de](http://www.eigner-messtechnik.de)

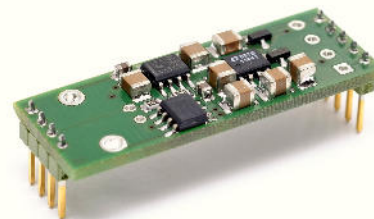
[info@eigner-messtechnik.de](mailto:info@eigner-messtechnik.de)

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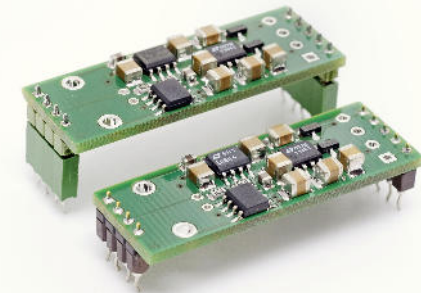
ICP<sup>®</sup> reg. trademark PCB Group Inc.



Version A – designed for front panel mounting



Version B1 – designed for main board mounting



Version B2 – such as B1 but reduced overall height