

ACPM - Charge Amplifier

» CHARGE AMPLIFIER



The ACPM is a Piezoelectric Multichannels Charge Amplifier. It makes it possible to condition up to 4 cylinder pressure sensors, while offering monitoring capabilities (PMax and speed). Simple and user-friendly, the ACPM is compatible with all combustion analysis systems and more especially tailored for OSIRIS and FEVIS.

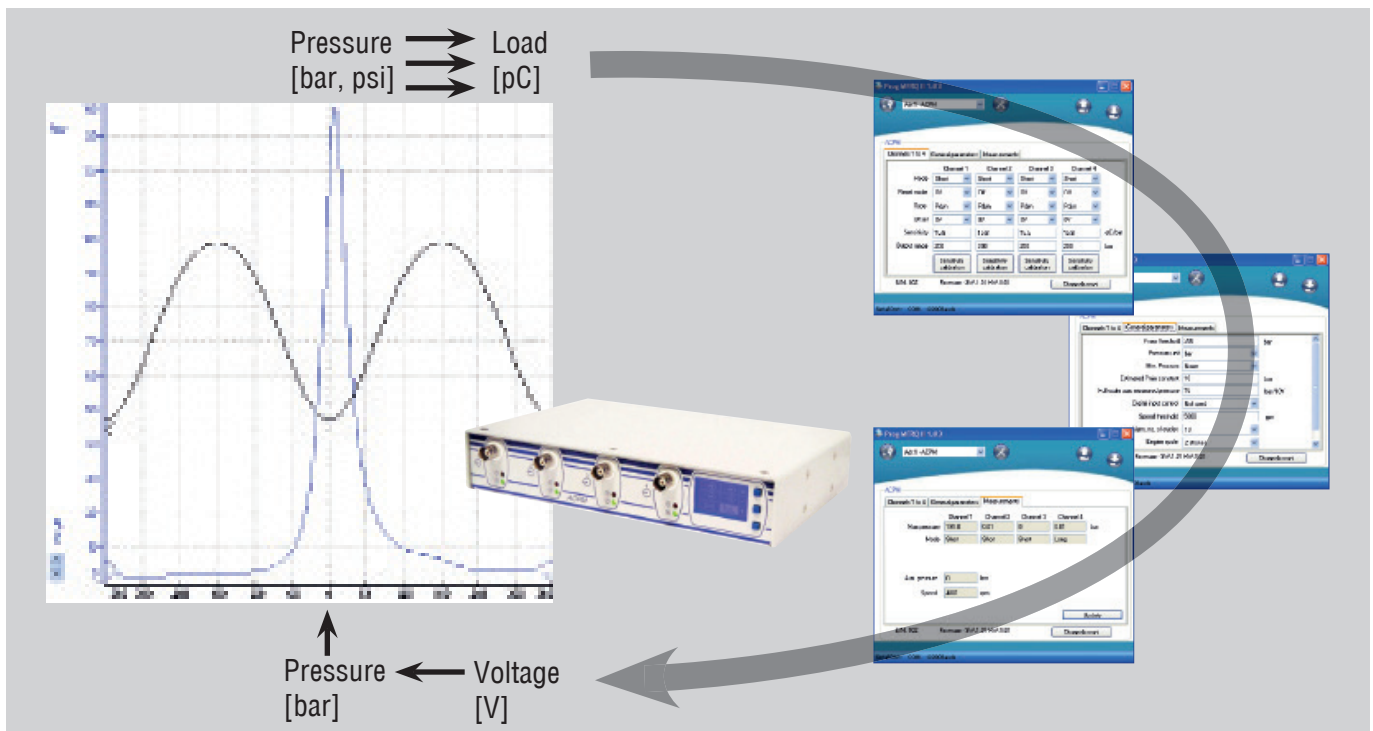
Benefits

- > Simple integration with OSIRIS Combustion analysis system (reduced time of implementation, only one cable for all signals)
- > Compatible with all piezoelectric pressure sensors
- > Standalone for Pmax and engine speed monitoring (relay outputs)
- > Direct visualization of user interface, on-line visualization and monitoring of:
 - Instantaneous or maximum pressure
 - Engine speed
- > Front face reset button
- > Built-in calibration function
- > Flexible and powerful: ability to take into account the intake pressure via an input signal or a constant required for Pmax analysis

Application

- > Condition in-cylinder signals for combustion analysis:
 - Test bed
 - In-vehicle
- > Provide Pmax analysis for preventive maintenance (on-board, industrial engines...)

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Technical Data

Number of channels	4 charge inputs + 1 Voltage input
Modes	Dynamic pressure (long and short) or maximum pressure
Sensitivity	-1 to -999 pC/bar
Resolution	16 bits
Output	Scale: 1 to 400 bar Voltage: ± 10 V Offset: 0 or -8 V Bandwidth: 300 kHz
Pmax monitoring	Relay output, 1 to 15 cycles
Speed monitoring	From 50 to 20,000 rpm – relay
Languages	English, French
Communication	RS232 Serial link
Dimensions (W x H x D)	222x 44 x150 mm/ 175 mm overall
Weight	1 kg
Power supply	10 to 30V d.c.; 10W typical; 24W upon cranking
Standards	EC-Compliant EMC IEC 61326-1
Operating temperature	-30 to 50 °C