

VIBRO METER IPC704 244-704-000-042 Configuration Verification

Product Reference

vibro-meter IPC704 Charge-Signal Conditioner - Configuration Verification

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited Parker Meggitt manufacturer sources. No product photograph is included.

Product / lookup identity	VIBRO METER IPC704 244-704-000-042 Configuration Verification
Reference number	244-704-000-042
Document basis	Published Parker Meggitt product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/Vibro-Meter/ipc704-244-704-000-042>

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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

vibro-meter IPC704 244-704-000-042 is a Meggitt signal conditioner, also described in the official manuals as a charge converter, for piezoelectric machinery-monitoring measurement chains using CA accelerometers or CP dynamic-pressure sensors. It receives the sensor's charge-based signal, applies the ordered transfer function and high-pass/low-pass filtering, optionally integrates acceleration to velocity when that factory configuration is selected, and delivers a conditioned analogue signal to an external machinery protection or condition-monitoring system. System context: vibro-meter IPC704 Charge-Signal Conditioner - Configuration Verification.

Published field	Manufacturer-published value or verified identity note
Manufacturer	Meggitt SA / Parker Meggitt
Brand	vibro-meter
Model	IPC704
Verified base P/N	244-704-000-042
Complete configuration	HOLD - A-I option code not supplied
Product type	Configurable signal conditioner / charge converter
Supported sensor classes	vibro-meter CA piezoelectric accelerometers and CP piezoelectric dynamic-pressure sensors; exact sensor and cable must be verified

System function and signal path

01	Input: Charge-based signal from the selected CAxxx accelerometer or CPxxx dynamic-pressure sensor through the approved low-noise cable assembly.
02	Conditioning: Applies the ordered transfer sensitivity plus configured high-pass and low-pass filters; optional integration converts an acceleration-related input to a velocity-related output when that exact option was ordered.
03	Output: Provides either a current-modulated two-wire analogue output or a voltage-modulated three-wire analogue output for the external monitor, as defined by the complete option code.
04	Transmission: Meggitt documents a current-output IPC704 with two-wire transmission and GSI127 for high-quality long-distance transmission; voltage output is used in a three-wire chain for shorter transmission.

Applications, answers, and official sources

1 Gas-turbine bearing absolute vibration: Official Meggitt AE 94.3A material uses IPC704 base P/N 244-704-000-042 with CA202 accelerometers to condition bearing absolute-vibration signals; the complete option code must match that machine design.

2 Combustion-chamber casing vibration: Official M701F/M701G and AE 94.3A examples use the base IPC704 P/N with CA134 or CA901 accelerometers to condition casing/combustion vibration, each with different transfer and filter options.

3 Combustor dynamic-pressure monitoring: Official M701F/M701G and AE 94.3A examples use the base IPC704 P/N with CP237 or CP704 dynamic-pressure sensors to condition pressure-pulsation signals for monitoring/protection.

4 Long-distance analogue machinery-monitoring chains: A current-output IPC704 can be paired with two-wire transmission and GSI127 galvanic separation to carry high-frequency measurement signals from field sensors to a remote monitoring system, subject to the exact wiring and Ex design.

Frequently asked questions

What is vibro-meter IPC704?	It is a configurable Meggitt signal conditioner/charge converter for CA piezoelectric accelerometers and CP piezoelectric dynamic-pressure sensors.
Is 244-704-000-042 a complete IPC704 ordering number?	No. Official Meggitt examples append A-I option codes; the base number alone does not identify one complete electrical configuration.
What signal enters the IPC704?	A charge-based signal from the selected CA accelerometer or CP dynamic-pressure sensor enters through the approved low-noise sensor cable.
What output does IPC704 provide?	Depending on the ordered configuration, it provides a current-modulated two-wire or voltage-modulated three-wire analogue output.
What frequency range does the IPC704 family cover?	Meggitt's official sensor-system brochure states configurable high-pass and low-pass filters across 0.5 Hz to 20 kHz; the actual ordered limits require the full option code.
Can IPC704 produce velocity output?	An optional integrator can provide a velocity-related output, but its presence and scaling cannot be confirmed from the incomplete base P/N.

Official Parker Meggitt sources

Vibration measurement chains using CAxxx piezoelectric accelerometers - Installation Manual	https://meggittsensing.com/wp-content/uploads/Manual_CAxxx_IPC707_installation-en.pdf
Pressure measurement chains using CPxxx piezoelectric pressure sensors - Installation Manual	https://meggittsensing.com/wp-content/uploads/Manual_CPxxx_IPC707_installation-en.pdf
Meggitt Sensor systems for turbomachinery brochure	https://meggittsensing.com/wp-content/uploads/2017/01/SensorSystems_brochure-Oct2014-final-eviwin g.pdf
IPC707 replaces IPC704 in the Vibro-Meter Energy product line	https://meggittsensing.com/news/meggitts-ipc707-signal-conditioner-replaces-the-ipc704-in-the-vibro-meter-energy-product-line/
IPC707 signal conditioner product page	https://catalogue.meggittsensing.com/shop/sensors-and-signal-conditioners/signal-conditioners/ipc707-signal-conditioner/
Meggitt Vibro-Meter sensors as standard on Mitsubishi M701F/M701G	https://meggittsensing.com/wp-content/uploads/Gas-turbine-monitoring-points-M701F_M701G-product-flyer-en.pdf
Meggitt Vibro-Meter sensors on Ansaldo AE 94.3A gas turbine	https://meggittsensing.com/wp-content/uploads/Gas-turbine-monitoring-points-AE-94.3A-product-flyer-en.pdf