

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

IPC704 Full-Option-Code and Measurement-Chain Verification Guide

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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Sensor charge, ordered conditioning, analogue transmission, and monitor-scaling path

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.

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.
05	Monitor Interface: The receiving machinery protection/condition-monitoring channel must be configured to the exact IPC704 transfer function, output type, filters, sensor sensitivity, engineering units and expected measurement range.

Base-P/N HOLD, gas-turbine measurement chains, and IPC707 conversion boundaries

01	Verification Status: VERIFIED IPC704 BASE PART NUMBER FROM MEGGITT OFFICIAL APPLICATION FLYERS; CONFIGURATION SUFFIX A-I NOT SUPPLIED
02	Exact Mapping: Meggitt official gas-turbine application flyers repeatedly identify IPC704 with base P/N 244-704-000-042, followed by A-I option codes. The same base number appears with different environment, transfer, sensitivity, filtering, transmission and application configurations. Therefore 244-704-000-042 verifies the product family/base hardware but does not identify one complete electrical configuration.
03	Lifecycle Status: Superseded in the vibro-meter Energy product line: Meggitt announced in January 2019 that IPC707 was replacing IPC704. No exact Active/Classic/Limited/Obsolete phase for 244-704-000-042 is published in the cited official sources.

A-I suffix, CA/CP sensor, filter, output, grounding, GSII27, Ex, and end-to-end checks

01	Do not energize, quote or configure the IPC704 from base P/N 244-704-000-042 alone; record the complete A-I option code and the physical label first.
02	Isolate all sensor, conditioner, power, output, GSII27 and monitoring-system circuits using the site's approved electrical and machinery-protection procedure before wiring changes.
03	Follow the exact Meggitt CAxxx or CPxxx measurement-chain installation manual that matches the sensor class; do not mix vibration-chain and pressure-chain pinouts or cable arrangements.
04	Because the conductive IPC704 housing is connected to COM, electrically isolate the housing from ground exactly as instructed to avoid earth loops and incorrect measurements.
05	Maintain the documented cable shields, pair routing, separation from power wiring, enclosure entry grounding and open/connected shield ends; do not improvise a two-ended shield connection.
06	For long-distance current transmission, verify the GSII27 variant, supply, transfer function, cable capacitance/length, galvanic-separation arrangement and receiving-channel scaling from the project drawing.

Identity and release controls

Verification Status	VERIFIED IPC704 BASE PART NUMBER FROM MEGGITT OFFICIAL APPLICATION FLYERS; CONFIGURATION SUFFIX A-I NOT SUPPLIED
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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