

Type of products: Power and harmonics clamps
Names of products: F407 & F607

The Power of Innovation for High-Performance Clamp Meters!

Chauvin Arnoux's new F407 and F607 power and harmonics clamps are simple, rugged, IP 54, high-performance instruments full of innovations. With their 1,000 V CAT IV rating, they offer the highest level of safety available on the market. Their 60 mm clamping diameter is also among the largest.

Multiple innovations!

These are **the only multimeter clamps on the market** to comply with the requirements of the **IEC 61010 CAT IV 1000 V standard**.

To maintain this level of safety over the long term, they guarantee **IP54 protection** against water and dust.

The unprecedented **TrueInrush function** can be used to measure the inrush of a motor and even of a set of motors operating randomly.

Their **60 mm clamping diameter** and **current measurement up to 3,000 ADC** are also **exclusive features!**

The F407 and F607 power and harmonics clamps measure the full harmonic decomposition up to the 25th order, THD-r and THD-f.

Power

On single-phase or balanced three-phase systems, they measure all the active, reactive and apparent power values, as well as the power factor and displacement power factor.

They can be used for power metering: source, load, capacitive, inductive.

The Min and Max functions ensure that no variations are missed. Peak values are detected by the the Peak+ and Peak- functions, whatever the type of measurement. There is also a function for monitoring the Ripple in DC mode.

Because these clamps can store up to 10,000 measurements from several sessions, they are ideal for comprehensive network surveillance. Their Bluetooth communication capability makes it simple to recover and process these recordings. The **PAT and Dataview® software products** facilitate recovery and full analysis of the measurement results.

Applications

The F407 and F607 can be used to cover all low-voltage applications as they are capable of measuring **voltage up to 1,000 V** and **current up to 2,000 AAC or 3,000 ADC** (F607 clamp).

For maintenance operations and troubleshooting, they can be used on electrical cabinets, variable speed drives or uninterruptible power supplies, as needed. Thanks to their high amperage, they are also ideal for use in railways, the steel industry and the oil sector, as well as on backup power systems such as solar power installations.

When untimely RCD tripping occurs, analysis of the starting currents with the **TrueInrush function** helps to identify the equipment involved.





The F407 and F607 can also be used for load surveys to check that an installation is correctly sized before adding equipment.

Ergonomics and Eco-Design

Equipped with a large **triple backlit display**, the F407 and F607 also benefit from the precision of a **10,000-count display**.

Their clamp shape, rotary switch and autoranging function are all features designed to make them easier to use. **With just one hand**, users can connect the clamp, select the measurement and choose the required functions. For maximum clarity, each measurement corresponds to one switch position. The concept "**1 key equals 1 function**" makes it **even simpler to use**.

Various clamping diameters are available **up to 60 mm**, ensuring that the widest possible range of requirements can be covered in the best possible conditions.

Equipped with a shockproof protective band, the casings of these clamps are also particularly fall-resistant.

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