



IC-640

UNBALANCED THREE-PHASE WATTMETER CLAMP 600 V, 600 A

WITH TRANSIENT PROTECTION

COMPACT DESIGN DESIGNED TO WORK ANYWHERE, EVEN IN CONFINED SPACES

The **IC-640** professional, compact wattmeter clamp can measure unbalanced three-phase loads and store in its internal memory the consumption in kWh. The **IC-640** clamp can take TRMS measurements in alternate current (AC) up to 600 A, analyze the three-phase and single-phase power, measure the total power factor and the impedance.

Its big LCD screen is easy and convenient to read and the instrument design, with a high level of functionality, allows a single hand easy operation.

The functions in the **IC-640** wattmeter clamp make it a perfect tool for advanced applications in the field of the electrical power distribution.



**TRUE
RMS**

MEASUREMENTS INCLUDED IN THE IC-640 WATTMETER CLAMP

- ✓ **DC/AC TRMS voltage:** Up to 600 V
- ✓ **AC current:** Up to 600 A
- ✓ **Power and energy measurement:** Active and reactive
- ✓ **Power factor:** From 0.10 to 0.99
- ✓ **Impedance:** Up to 999.9 Ω
- ✓ **Continuity:** Audible tone for impedances between 10 and 300 Ω
- ✓ **Frequency:** From 5 to 500 Hz
- ✓ **Consumption (kWh) recording function**

SPECIFICATIONS

- ✓ **Display:** Backlightes LCD screen
- ✓ **Polaridad:** Automatic
- ✓ **Three-phase unbalanced power measurement**
- ✓ **Dimensions:** 78 (W.) x 189 (H.) x 40 (D.) mm
- ✓ **Functions:** HOLD, RMS peak hold, Automatic measurement selection, Dual on-screen measurement, Consumption recording function, Inductive systems detection
- ✓ **Power supply:** Batteries (2x1.5 V AAA-size)

| SPECIFICATIONS | IC-640 UNBALANCED THREE-PHASE WATTMETER CLAMP 600 V, 600 A |
|---|--|
| Display | Backlighted LCD screen 6000 counts (voltage), 4000 counts (current) and 9999 counts (other measurements) |
| Display functions | HOLD, RMS peak hold, Automatic measurement selection (V _{AC} V _{DC} or A _{AC}), Energy parameters selection W, VAR and VA with total power factor (on-screen dual measurement), Consumption (kW/h) recording function |
| Polarity | Automatic |
| Protection category | CAT IV 300 V, CAT III 600 V |
| Max conductor diameter | 26 mm |
| DC voltage Accuracy | Up to 600 V ±(0.5% rdg. + 5 digits) |
| AC TRMS voltage Accuracy | Up to 600 V 50/60 Hz: ±(0.5% rdg. + 5 digits) / 45 to 500 Hz: ±(1.5% rdg.+ 5 digits) / 500 a 3.1 kHz: ±(2.5% rdg. + 5 digits) |
| AC TRMS current Accuracy 50 / 60 Hz 45 to 500 Hz 500 Hz to 3.1 kHz | Up to 600 A ±(1% rdg.+ 5 digits) 40 A and 400 A scales: ±(2% rdg.+ 5 digits) / 600 A scale: ±(2.5% rdg.+ 5 digits) 40 A and 400 A scales: ±(2.5% rdg.+ 5 digits) / 600 A scale: ±(3% rdg.+ 5 digits) |
| Power factor (PF) Accuracy | From 0.1 to 0.99 1st to 21° harmonic: 3 digits / 22° to 51° harmonic: 5 digits |
| Single and Three-phase balanced power Up to 600 kVA (PF 0.99 to 0.1) Up to 600 kW / kVAR FP 0.98 to 0.70 FP 0.70 to 0.50 FP 0.50 to 0.30 FP 0.30 to 0.20 | 1st to 10° harmonic: ±(2% + 6 dgt.) / 11° to 45°: ±(3.5% + 6 dgt.) / 46° to 51°: ±(5.5% + 6 dgt.) 1st to 10° harmonic: ±(2% + 6dgt.) / 11° to 25°: ±(3.5% + 6dgt.) / 26° to 45°: ±(4.5% + 6dgt.) / 46° to 51°: ±(10% + 6dgt.) 1st to 10° harmonic: ±(3% + 6dgt.) / 11° to 25°: ±(3.5% + 6dgt.) / 26° to 45°: ±(4.5% + 6dgt.) / 46° to 51°: ±(10% + 6dgt.) 1st to 45° harmonic: ±(4.5% + 6 digits) / 46° to 51°: ±(10% + 6 digits) 1st to 45° harmonic: ±(10% + 6 digits) / 46° to 51°: ±(15% + 6 digits) |
| Frequency Accuracy | From 5 to 500 Hz ±(0.5% rdg. + 4 digits) |
| Impedance Accuracy | Up to 999.9 Ω ±(1% rdg. + 6 digits) |
| Continuity test | Audible tone when the impedance value of the circuit under test is between 10 Ω and 300 Ω. |
| Inductive systems detection | "A-lags-V" is displayed to indicate an inductive circuit (the current lags behind the voltage) |
| Consumption recording (kW/h) | The result for a balanced three-phase circuit and for a single-phase circuit are stored separately |
| Unbalanced three-phase load power | Designed for scenarios with no significant power fluctuations. The result is calculated after measuring each phase sequentially. |
| Power supply | 2x1,5 V AAA-size batteries |
| Mechanical features | 78 (W.) x 189 (H.) x 40 (D.) mm / 192 g |
| Included accessories | Test leads, Batteries, Transport pouch |