

Registrador/analizador de redes eléctricas trifásico para el análisis de la calidad de suministro eléctrico *EnergyTest HT2020*



CARACTERÍSTICAS:

- Medidas de:
 - Tensiones fases y entre fases
 - Corrientes
 - Potencias aparentes
 - Potencias activas
 - Potencias reactivas e inductivas
 - Potencias reactivas capacitativas
 - Factor de potencia
 - Energía activa y reactiva
 - Frecuencia
 - Armónicos de tensión e intensidad hasta en 50° en tiempo real
 - Visualización de formas de ondas
- Amplio visualizador 128 × 128 pixel.
- Frecuencia de muestreo a 6.400 Hz.
- Posibilidad de registrar 64 parámetros simultáneamente.
- Salida serie RS 232.
- Memoria de 2 Mb.
- Alimentación por pilas o alimentación externa.
- Autoapagado (deshabilitado durante el registro).
- Categoría III 600v.
- Dimensiones 225 × 165 × 70 mm.

ACCESORIOS INCLUIDOS:

- Programa de gestión + cable RS 232 + 3 pinzas 1000A (HT98) + bolsa de transporte + cables con cocodrilos + manual de instrucciones en castellano + certificado de calibración

VOLTAGE MEASUREMENT

Range (V)	Resolution (V)	Accuracy	Input impedance	Overload protection
50 ÷ 400V	0.2V	± (0.5% Reading + 2 digit)	2MΩ	900V 1 Minute
400 ÷ 600V	0.4V			

CURRENT MEASUREMENT

Range (V)	Resolution (mV)	Accuracy	Input impedance	Overload protection
1 minimum current 0.5%FS	0.2% of FS	± (0.5% Reading + 2 digit)	10kΩ	5V - 1 mA

Example: if you use clamps with range of 1000A/1V, the instrument has a resolution of 0.1A.

POWER MEASUREMENT

Type of measurement	Range	Accuracy	Resolution
ACTIVE POWER	0 ÷ 999.9W 1 ÷ 999.9kW 1 ÷ 999.9MW	± (1.0%Reading + 2 digit)	0.1W 0.1kW 0.1MW
REACTIVE POWER	0 ÷ 999.9VAR, 1 ÷ 999.9kVAR, 1 ÷ 999.9MVAR		0.1VAR 0.1kVAR 0.1MVAR
APPARENT POWER	0 ÷ 999.9VA, 1 ÷ 999.9kVA, 1 ÷ 999.9MVA		0.1VA 0.1kVA 0.1MVA
ACTIVE ENERGY (Class2 EN61036)	0 ÷ 999.9Wh, 1 ÷ 999.9kWh, 1 ÷ 999.9MWh		0.1Wh 0.1kWh 0.1MWh
REACTIVE ENERGY (Class3 IEC1268)	0 ÷ 999.9VARh, 1 ÷ 999.9kVARh, 1 ÷ 999.9MVARh		0.1VARh 0.1kVARh 0.1MVARh

Cos φ MEASUREMENT

Cos φ	Accuracy	Resolution
0.20	0.1	0.6
0.50		0.7
0.80		1

ARMONIC MEASUREMENT

Range	Base Accuracy	Max Resolution
DC – 25H 26H – 33H 34H – 50H	5% + 2 digit 10% + 2 digit 15% + 2 digit	0.1V / 0.1A

STANDARDS

- SAFETY STANDARDS

The instrument complies with: EN 61010-1
Insulation classe 1
Pollution level 2
Overvoltage category CAT III 600V for voltage measurement
Inside use; max height: 2000m

- EMC

EN55022, IEC1000-4-2, EN61000-4-3, ENV50204, IEC1000-4-4, EN61000-4-6
EN61000-4-8

- MISURE ELETTRICHE

Voltage characteristics of electricity supplied by public distribution systems EN50160
Alternating current static watt-hour meters for active energy (Class 1 and 2) EN61036
Alternating current static watt-hour meters for reactive energy (Class 2 and 3) IEC1268

MECHANICAL FEATURES

Dimensions 225x165x 70mm
Weight (include batteries) about 1000g

POWER SUPPLY

Battery type 6 batterie 1.5V serie AA LR6
Battery life about 10 hours
Feeder 12Vdc/100mA

DISPLAY

Characteristics Grafic module – matrix of points
Resolution 128x128 (16384 pixel)
Ppixel dimension 0.5mmx0.5mm
Visible area 73mmx73mm

ENVIRONMENTAL WORKING CONDITIONS

Reference temperature 23° ÷ 5°C
Working temperature -5° ÷ 40°C
Relative humidity allowed < 80%
Storage temperature -10 ÷ 60°C
Storage humidity < 70%

RECORD OF MEASUREMENTS

Phase and phase to phase voltage
Phase current
Active, reactive and apparent power
Active energy (Class2 EN61036), reactive energy (Class3 IEC1268)
Power factor, phase and phase to phase cosφ
Armonic
Max number of selected measure 64
Integration period 5 ÷ 3600 sec.
Record autonomy higher of 30gg with integration period of 15 minutes