

# STAR396™

*Analizzatore da quadro 96x96, ideale per la misura e il monitoraggio delle principali misure delle reti elettriche in bassa e media tensione.*

*Panel Energy Analyzer 96x96, ideal for measuring and monitoring main parameters of electrical networks in low and medium voltage*



STAR396 è un **analizzatore da quadro 96x96 economico** e dedicato alla misura delle principali misure elettriche di un impianto in Bassa e media tensione.

La capacità di **misura dei valori assorbiti e generati nonché i principali valori di distorsione armonica** rende STAR396 uno strumento completo in un range di prezzo molto competitivo. La **comunicazione RS485** completa il ventaglio di prestazioni messo a disposizione dell'utilizzatore

**EN** STAR396 is a **low cost 96x96 panel analyzer** dedicated to measuring the main electrical measurements of a low and medium voltage system.

The measurement capacity of the absorbed and generated values as well as the **main harmonic distortion values** makes STAR396 a complete instrument in a very competitive price range.

**RS485 communication** completes the range of services made available to the user

## COMPLETO E VERSATILE

- ✓ Ridotti ingombri in profondità nel pannello; meno di 60mm
- ✓ THDI e THDV
- ✓ Unbalance
- ✓ Sfasamento
- ✓ Comunicazione 485
- ✓ Potenze ed energie assorbite e generate
- ✓ Accuratezza secondo IEC 62053-21
- ✓ Costruzione in plastica autoestinguente

## COMPLETE AND FLEXIBLE

- ✓ Small dimensions deep in the panel; less than 60mm
- ✓ THDI e THDV
- ✓ Unbalance
- ✓ Power factor
- ✓ Communication 485
- ✓ Powers and energies absorbed and generated
- ✓ Accuracy according to IEC 62053-21
- ✓ Self-extinguishing plastic construction;

# Caratteristiche tecniche

## Technical details

<b>ENCLOSURE:</b>	
Sizes	96x96x58 mm
Overall dimensions inside the board	96x96x48 mm
Material	Polycarbonate with V0 self-extinguish rating
Protection rating	IP54 (at the front), IP51 (at the back)
Weight	275 g
<b>DISPLAY:</b>	
Type	LED 3 row
Languages	n.a.
<b>KEYPAD:</b>	
Type	2 keys
Material	Plastic
<b>CONNECTIONS:</b>	
Supply and voltages	Terminals with retaining screws
Currents	Terminals with retaining screws
<b>POWER SUPPLY:</b>	
AC	80-300V AC/DC, 50-60 Hz 8VA
Consumption	4VA
Wire section	2.5 mm <sup>2</sup>
<b>MEASURES:</b>	
Refresh interval of data	1 sec.
Type of possible connection	Programmable: Star, Delta and Single phase
Type of network that can be connected	Low and Mean Voltage (LV)
<b>VOLTAGE (TRMS)</b>	
Available frequencies	From 45 Hz to 65 Hz
Channels	3 channels with common neutral
Direct measure	Phase-phase: 50-600 VLL
Measure through VT	Ratio: 1-600
<b>CURRENT (TRMS)</b>	
Maximum measurable current	6A
Measure through CT	Ratio: 1-600
<b>ACCURACY</b>	
Measured class	Class 1 as per IEC 62053-22
<b>COMMUNICATION:</b>	
Device ID & Parity	1 to 247 & Odd, Even, None (Preferred Even)
Protocol & Interface	Modbus. RTU & RS 485
Baud rate	2400 bps to 38.4k bps (Preferred 9600)
Isolation	2000 volts AC isolation for 1 minute between communication and other circuits
<b>ELECTROMAGNETIC COMPATIBILITY:</b>	
Electrostatic discharge	IEC 61000-4-2g
Immunity to Electromagnetic RF Fields	IEC 61000-4-3g
Conducted Immunity	IEC 61000-4-6g
Immunity to Magnetic Fields	IEC 61000-4-8g
Immunity to voltage dips and interruptions	IEC 61000-4-11g
Fast transient	IEC 61000-4-4g
Immunity to surge waves	IEC 61000-4-5g
Impulse voltage; conducted and radiated emissions	CISPR-22
<b>SAFETY AND STANDARDS:</b>	
Construction	IEC/EN 61010-1 ed.3, CAT III, 300 V LN / 600 V LL , protective class II.
Standards	