

# SIRIO™

*Analizzatore/Contatore da quadro 4 moduli DIN, dotato di comunicazione RS485.*

*4 modules rail DIN power analyzer/counter, with RS485 communication.*



**SIRIO™** è uno strumento **4 moduli DIN** multifunzionale a basso costo, ideale per la misurazione, la visualizzazione e la **trasmissione remota** dei parametri elettrici più importanti.

**SIRIO™** può essere installato in sistemi squilibrati monofase e trifase a triangolo o a stella.

Include **due relay di output** configurabili come allarme, contatto o controllo remoto.

**EN SIRIO™** is a cost-effective multi-function meter in a **4 DIN module**, ideal for measurement, display and transmission of the most important electrical parameters. Sirio can be installed in single phase and three-phase unbalanced systems in a triangle or in a star layout. It includes **two relay outputs**, user-configurable for alarms, pulse or remote control.

## UN POTENTE E VERSATILE STRUMENTO DI MISURA

- ✓ Oltre 40 misure disponibili in rete
- ✓ RS485: Porta seriale multi-protocollo RS485 supportante
- ✓ Protocolli Modbus RTU (BCD ed IEEE) e Modbus ASCII
- ✓ Uscite a relè: possono essere regolate per la segnalazione di allarmi, la generazione di impulsi o per il controllo a distanza mediante la porta RS485
- ✓ I relé sono tarabili per una soglia massima e minima; possono essere impostati sia l'isteresi, sia il tempo di ritardo
- ✓ Funzione "Allarme" associabile a diverse misure per essere usata come funzione di disinnesto per i MCB esterni
- ✓ Modalità "Pulse" dei relé che permette di generare impulsi proporzionali alla misura associata
- ✓ Modalità "Remote Control" per decidere la posizione dei relé tramite un dispositivo matrice esterno (PLC, PC, ecc), attraverso la linea RS485. Molto conveniente per l'applicazione di controllo del carico remoto
- ✓ Particolarmente indicato per le reti di misura estese

## A POWERFUL AND VERSATILE TOOL

- ✓ More than 40 sizes available on the net
- ✓ RS485: Serial port multi-protocol RS485 which supports the protocols Modbus RTU (BCD and IEEE) and Modbus ASCII
- ✓ Relay outputs: can be set for either alarm signalling, pulses generation or to be remotely controlled via the RS485 port.
- ✓ The relays are calibrated by a maximum and minimum threshold; They can be set in both the hysteresis and the delay time.
- ✓ Function "Alarm" associabile with different sizes to be used as a disengagement function for external MCB.
- ✓ Mode "Pulse" relay that allows you to generate pulses proportional the associated measure.
- ✓ Mode "Remote Control" to decide the position of the relays via an external master device (PLC, PC, etc) through the RS485 line. Very convenient for the application of the remote load control.
- ✓ Ideal as remote device for monitoring networks

# SIRIO™

<b>CASE:</b>	
Dimensions	70x58x90mm
Material	ABS with self-extinguishing V0 grade
Protection class	IP20, font panel IP30
Weight	400 g
<b>DISPLAY:</b>	
Type	LCD 128 segments
<b>KEYPAD:</b>	
Type	Membrane keypad with 3 keys
<b>POWER SUPPLY:</b>	
Power supply	230 or 115VAC ±10%; 35 ÷ 400 Hz
Consumption	3VA
Duration of the battery charge	>24h (wireless off)
<b>CONNECTING SYSTEMS:</b>	
Systems frequencies	35 ÷ 400 Hz
Single phase	✓
Two phase	✓
Three-phase, 3-wires, balanced	✓
Three-phase, 3-wires, unbalanced	-
4-phase, 4-wires, balanced	✓
4-phase, 4-wires, unbalanced	-
<b>CONNECTIONS:</b>	
Voltages	50Vac phase-neutral; 450Vac phase-neutral
Input impedance	2 Mohm
Current inputs	5A (external TA required); 1 VA
Max input currents	7 A permanent; 15 A 1 second
<b>MEASURES:</b>	
Traditional electrical analysis	T.R.M.S. up to 25th harmonic
<b>PRECISIONS:</b>	
Voltage	0,01
Current	0,01
Powers	2% (Class 2 IEC 1036)
<b>OUTPUTS:</b>	
Communication	RS485, Modbus RTU (BCD ed IEEE) e Modbus ASCII
Digital outputs	1 electronic relay 120mA/100VAC 1 electromechanic relay 1A/250VAC
<b>OPERATING CONDITIONS:</b>	
Operating temperature	-10 to +60 °C
Relative humidity	Max 80%
<b>NORMS:</b>	
Directives	93/68/CEE 2004/108/CE (EMC) 72/23/CEE (LVD)
Safety	EN 61010-1
Electromagnetic Compatibility (EMC)	EN 61326, EN 61326/A1, EN 61326/A2, EN 61326/A3 EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-3/A1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-5/A1, EN 61000-4-6, EN 61000-4-6/A1, EN 61000-4-8, EN 61000-4-8/A1, EN 61000-4-11, EN 61000-4-11/A1