48250600

Power quality meter DIRIS A-100 RS485 MODBUS sensor

The DIRIS A-100 / A-200 are panel-mounted power quality meters that can communicate either via MODBUS RTU over RS485, MODBUS TCP over Ethernet or BACnet IP. The device's four RJ12 independent current inputs enable the management of multiple circuits of several different types: for example, 4 single-phase loads or 1 three-phase load + 1 single-phase load. A core-balance toroid can be fitted onto the A-200 for additional residual current monitoring. Most types of sensors are compatible: solid-core, split-core or flexible Rogowski coils through quick-connect RJ12 sensors.

Strong points

- The ultimate all-purpose power quality meter
- Plug & play
- Fully customizable
- Advanced features*
- Best-in-class accuracy
- Easy data management

Compliance with standards

- IEC 61557-12
- IEC 62053-21 -24
- UL 61010-1 File E257746
- ISO 14025
- EN50160

Link to the reference

https://emea.socomec.com/en/reference/48250600

Classification

UNSPSC	83101808
ETIM Class	EC002301
IGCC	6042

Commerce

Description	Power quality meter DIRIS A-100 RJ12 current sensor, 115-600 VAC power supply with Modbus communication protocols and RS485 communication ports, Solid-core, Split-core or Rogowski coils are compatible
Effective date	2023-06-01
Offer Life Cycle Code	40
Country of origin	US

Environmental impact

Carbon footprint - Lifecycle total [kg CO_2 eq.]	279
Carbon footprint - Manufacturing [A1-A3] [kg CO_2 eq.]	39
PEP Filename	SOCO-00055-V01.01-EN.pdf

ETIM - Electrical characteristics

Accuracy class active energy according to IEC 62053-22	0.1S
Accuracy class reactive energy according to IEC 62053-23	Other
Pulse output	Electrical
Sampling frequency [Hz]	9600
Number of voltage measurement inputs	4
Number of current measurement inputs	4
Voltage type (supply voltage)	AC
Supply voltage AC 50 Hz [V]	115..600
Supply voltage AC 60 Hz [V]	115..600
Measuring range for frequency [Hz]	50..60
Max. current (Imax) [A]	10000
Display resolution (horizontal) [px]	350
Display resolution (vertical) [px]	160
Number of digital inputs	3
Number of digital outputs	1
Suitable for RJ plug	No
Supporting protocol for IEC 61850 Ethernet	No
Supporting protocol for OPC UA PubSub	No

Supporting protocol for PROFIBUS	No
Supporting protocol for Modbus	Yes
Supporting protocol for PROFINET IO	No
Supporting protocol for other bus systems	No
With firmware signature	Yes
With logging of security events (security event log)	Yes
Web server with HTTPS transfer protocol	No

ETIM - Mechanical characteristics

Mounting method	Front mounting
Width [mm]	98.5
Height [mm]	98.5
Depth [mm]	108
Degree of protection (IP), front side	Other

ETIM - Technical features

Display	Graphic
Remote display	No
With communication interface KNX	No
Wth communication interface M-Bus	No
With communication interface RS-485	Yes

Logistics

GTIN/EAN	3596033205446
Customs number	9030320000
Price unit	PC
Weight of the packing unit [kg]	0.44
Length of the packing unit [m]	0.135
Width of the packing unit [m]	0.12
Depth of the packing unit [m]	0.11

Materials and substances

EU REACH	Does not contain SVHC
EU RoHS	Compliant

Technical Characteristics

Height [mm]	98.5
Width [mm]	98.5
Depth [mm]	108
Weight [kg]	0.326
Application	Monitoring
Communication ports	RS485
Communication protocols	Modbus RTU
Model	A-100
Type	RJ12