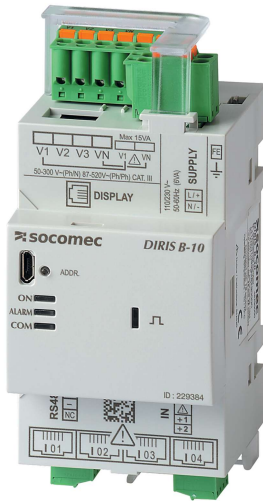


48290010

Multifunction meter DIRIS B-10 RS485 MODBUS 230VAC



Strong points

- Plug & Play
- Better than revenue grade
- Multi-circuits
- Versatile

General characteristics

Plug & Play: quick RJ12 connection to smart current sensors
 Global accuracy class 0.5 (meter + sensors) in accordance with ANSI C12.20
 4 current inputs allow the measurement of the neutral conductor
 Multiple communication options

Compliance with standards

UL 61010-1, CSA-C22.2 No. 61010-1, Guide PICQ, File E257746
 ANSI C12.20
 PBI Meter per CA Energy Commission IEC 61557-12

Link to the reference



<https://www.socomec.us/en-us/reference/48290010>

The DIRIS B is a DIN-rail mounted power monitoring device compatible with TE/TR/iTR/TF smart current sensors, suitable for new or existing electrical installations.

The 4 independent RJ12 current inputs allow the DIRIS B to monitor 1 three-phase circuit and use a dedicated current sensor for the neutral, or 4 single-phase loads. The DIRIS B has 2 native digital input for additional versatility and includes Modbus RTU serial communication to report measurements to external management systems.

Additional digital & analog input/output modules can extend the basic functional scope of the DIRIS B. An optional display can also be plugged to the meter for local visualization on panel doors.

----- System -----

Fill rate E-Order Common	29
Fill rate E-Order Selection	100

Certificates and Declaration

Conformity to standard #1	UL 61010-1 Guide PICQ File E257746
Conformity to standard #2	CSA-C22.2 No. 61010-1
Conformity to standard #3	CEC Compliant
Conformity to standard #4	ISO 14025
Proposition 65 California	WARNING This product can expose you to chemicals including bisphenol A (BPA), which is known to the State of California to cause birth defects or reproductive harm. For more information go to : www.P65Warnings.ca.gov

Standards

Conformity to standards	IEC UL
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Certificates and Declaration - Safety

Safety standards	IEC/EN 61010-1 UL 61010-1 CAN/CSA C22.2 No. 61010-1
UL file number	E257746

General Product Characteristics

Device type	Multifunction Power metering and monitoring device (PMD)
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Technical Characteristics

Application	Metering
Communication ports	RS485
Communication protocols	Modbus RTU
Model	B-10
Type	Power Monitoring Device

Technical Characteristics - Electrical

Max voltage (Phase/neutral)	50-300 VAC (Ph/N)
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Technical Characteristics - Environmental

Maximum operating altitude	6560 feet / 2000 m
Operating temperature	+14 ... +158 °F / -10 ... +70 °C
PEP ecopassport - ISO 14025	SOCO-2014-01-v1-fr, SOCO-2014-01-v1-en
Relative humidity	131 °F / 55 °C / 97% relative humidity
Storage temperature	-13 ... +185 °F / -25 ... +85 °C

Technical Characteristics - Measurement

Accuracy class	Class 0.2 DIRIS B alone, Class 0.5 with TE, iTR or TF current sensors, Class 1 with TR current sensors
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Current measurement type	AC
Frequency rating	45 ... 65 Hz
General measurements	etering: +/- kWh, +/- kvarh, kVAh, Multi-tariff (8 max) Load curves Multi-measurement: V1, V2, V3, U12, U23, U31, f, I1, I2, I3, In, ?P, ?Q, ?S, ?PF, P, Q, S, PF per phase, Predictive Power, Voltage Ph/Nunbalance, Voltage Ph/Ph unbalance, Current unbalance (Inba, Idir, linv, lhom, Inb), Phi, cos Phi, tan Phi
Number of Digital inputs/outputs	2 Digital inputs
Power Quality measurements	THDv1, THDv2, THDv3, THDu12, THDu23, THDu31, THDi1, THDi2, THDi3, THDin
Voltage measurement type	AC
ETIM - Electrical characteristics	
Sampling frequency [Hz]	10000
Number of voltage measurement inputs	4
Number of current measurement inputs	4
Voltage type (supply voltage)	AC
Supply voltage AC 50 Hz [V]	110..230
Supply voltage AC 60 Hz [V]	110..230
Measuring range for frequency [Hz]	45..65
Number of digital inputs	2
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 audit logging (audit log)	No
With firmware signature	Yes
With logging of security events (security event log)	No
With Role Based Access Control (RBAC)	No
Web server with HTTPS transfer protocol	No
ETIM - Mechanical characteristics	
Width [mm]	54
Height [mm]	90
Depth [mm]	65
Degree of protection (IP), front side	IP20
ETIM - Technical features	
Ampere meter	Yes
Blind power meter	Yes
With rotational speed meter	No
Frequency meter	Yes
Pulse counter	No
Voltmeter	Yes
Effective power measurement device	Yes
Display	Optional
Remote display	Yes
Logistics	
GTIN/EAN	3596032985967
Customs number	9030310090
Price unit	PC
Weight of the packing unit	0.22
Length of the packing unit	0.07

Width of the packing unit	0.08
Depth of the packing unit	0.13
Product Details	
Effective date	2017-06-01
Country of origin	FR
Discount Policy	1EN10
Discount Policy Label	PERFORMANCE MONITORING DEVICES
Classification	
UNSPSC	83101808
ETIM Class	EC002301
IGCC	6042