

48290131

Current module DIRIS Digiware I-45, 4 current inputs, 2DI/2DO, Analysis



Strong points

- Multi-circuit
- Accurate
- Flexible
- Compact
- Plug & Play
- Cutting-edge technologies

General characteristics

Quick RJ12 connection to current sensors eliminating connection and configuration errors

Quick RJ45 connection between modules making it easy to add metering points to the system
Class 0.5 ANSI C12.20 (Meter + sensors)

Versions for metering, monitoring, and power quality analysis
Available with 3, 4 or 6 current inputs to optimize the number of modules

Single-output or multi-output for maximum optimization of the number of products

Compliance with standards

UL 61010-1, CSA-C22.2 61010-1, Guide PICQ, File E257746;
ANSI C12.20;
IEC 61557-12;
ISO 14025;
PBI Meter per CA Energy Commission;

Link to the reference

DIRIS Digiware I modules are DIN-rail mounted power monitoring modules. Associated with DIRIS Digiware U voltage measurement modules, they measure and monitor parameters such as powers, energies and power quality of electrical installations. Due to their design, they can be installed at the closest point to the circuit to measure. The RJ12 current inputs allow a quick and error free connection to current sensors with automatic detection of the sensor's primary rating and current flow direction to ensure reliable measurements at all times.

Adding DIRIS Digiware I modules to the bus is done simply by clicking in an RJ45 cable. This allows great flexibility to users who wish to add more metering points in the future.

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	IEC 61557-12
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

Environmental Sustainability

PEP Filename	SOCO-00091-V01.01-EN.pdf
Climate change - Total - Cradle to Grave [kg CO ₂ eq.]	55
Climate change - Total - Cradle to Gate [kg CO ₂ eq.]	15

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	Current acquisition modules
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Technical Characteristics

Application	Analysis
Model	I-45
Number of current inputs	4
Type	Current acquisition module
MID Certification	No

Technical Characteristics - Environmental

Maximum operating altitude	6560 feet / 2000 m
Operating temperature	-10°C ... +70°C
Storage temperature	-13 to +158 °F / -25 to +70 °C

Technical Characteristics - Measurement

Accuracy class	Class 0.2 DIRIS Digiware class only, Class 0.5 with TE, iTR or TF sensors, Class 1
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	with TR sensors
Degree of Pollution	2
General measurements	Metering - \pm kWh, \pm kvarh, kVAh, Demand profiles ,Multi-tariff, Multi-measurement - I1, I2, I3, In, Σ P, Σ Q, Σ S, Σ PF , P, Q, S, PF per phase ,Predictive power, Current unbalance (Inba, Idir, linv,, Ihom, Inb) , Phi, cos Phi, tan Phi,
Number of Digital inputs/outputs	2 input/ 2 outputs
Power Quality measurements	Quality - THDi1, THDi2, THDi3, THDin ,Individual harmonics I (up to 63rd),Overcurrents
Voltage measurement type	AC
ETIM - Electrical characteristics	
Sampling frequency [Hz]	10000
Number of current measurement inputs	4
Voltage type (supply voltage)	DC
Supply voltage DC [V]	0.24..0.24
Display resolution (horizontal) [px]	350
Display resolution (vertical) [px]	160
Number of digital inputs	2
Number of digital outputs	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)	Yes
With Role Based Access Control (RBAC)	No
Web server with HTTPS transfer protocol	No
ETIM - Mechanical characteristics	
Width [mm]	27
Height [mm]	150
Depth [mm]	72
Degree of protection (IP), front side	IP20
ETIM - Technical features	
Ampere meter	Yes
Blind power meter	Yes
With rotational speed meter	No
Frequency meter	No
Pulse counter	No
Voltmeter	No
Effective power measurement device	Yes
Remote display	Yes
Logistics	
GTIN/EAN	3596032783860
Customs number	9030337000
Price unit	PC
Weight of the packing unit [kg]	0.18

Length of the packing unit [m]	0.165
Width of the packing unit [m]	0.065
Depth of the packing unit [m]	0.055
Product Details	
Effective date	2014-01-23
Offer Life Cycle Code	40
Country of origin	FR
Classification	
UNSPSC	83101808
ETIM Class	EC002301
IGCC	6042