



48290131

General information

Product Range: DIRIS Digiware I

Long Description:

DIRIS Digiware I-45 Current; Current measurement module for DIRIS Digiware system; 4; Power Quality Analysis

Short Description:

DIRIS Digiware I-45 Current

Certificates and declaration

Conformity to standard #3: CEC Compliant

Conformity to standard #4: -

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

Container Information

EAN13: 3596032783860

Package Level 1 Units: B

Main

Reference: 48290131

General product characteristics

Device type: Current measurement module for DIRIS Digiware system

Ordering

Country of origin: FR

Standards and regulations

Accuracy

ANSI C12.20: Class 0.2

PMD

IEC 61557-12: Class 0.5 for the global measurement chain

Safety

Safety standards: IEC/EN 61010-1
UL 61010-1
CAN/CSA C22.2 No. 61010-1

UL file number: E257746

Safety standard

UL product category: PICQ/PICQ7

Technical characteristics

Communication characteristics

Communication Ports: RJ45 Digiware bus input output

USB port interface: 1 Type B micro USB; Upgrade and configuration of the module

Electrical characteristics

Device power consumption (VA): 1.125

Environnement

Relative humidity: 55 °C / 131 °F / 97% RH (IEC 60068-2-30)

Storage temperature: -25 ... +70 °C / -13 °F ... + 158 °F (IEC 60068-2-1/IEC 60068-2-2)

Environmental characteristics

Impact resistance: Front panel: 1J - casing: 1J (IEC 61010-1 Ed 3.0)

Maximum operating altitude: 6560 feet / 2000 m

Operating temperature: -10 ... +70 °C / +14 °F ... +158 °F (IEC 60068-2-1/IEC 60068-2-2)

PEP ecopassport - ISO 14025: SOCO-2014-06-v1-fr, SOCO-2014-06-v1-en

Vibration: 0.35 mm, 25 Hz, 20 min/axe (IEC 61557-12)

General characteristics

Display compatibility: DIRIS D-30
DIRIS Digiware D-40
DIRIS Digiware D-50
DIRIS Digiware D-70

Webserver compatibility: WEBVIEW-M
WEBVIEW-L

Measurement characteristics

Active Energy accuracy:

Class 0.2 ANSI C12.20

Class 0.5 for the global measurement chain according to IEC 61557-12 from 2% up to 120% of the rated current

Active Power accuracy:

Class 0.2 ANSI C12.20

Class 0.5 for the global measurement chain according to IEC 61557-12 from 2% up to 120% of the rated current

Alarms: 8 alarms with configurable thresholds (low/high)

Current measurement type: AC

Current module input: RJ12

Digital input connection: Removable screw terminal, AWG 15 to AWG 35 or 0.14 to 1.5 mm² stranded or solid cable

Digital input function: To be configured in module:
 Logical status
 Position of protection device or drawer (open/closed)
 Trip status
 Pulse metering

Digital input type: Non-insulated input, internal polarisation 12VDC max, 1mA

Digital output connection: Removable screw terminal, AWG 10 to AWG 32 or 0.2 to 2.5 mm² stranded or solid cable

Digital output function: To be configured in module:
 Remote command of device
 Alarm report
 Load shedding

Digital output type: Relay output: 230VAC +/- 15% - 1A

External sensors association: TE Solid Core; TR/iTR split Core; TF Flexible

General measurements:

Metering:
 +/- kWh, +/- kvarh, kVAh
 Multi-tariff (8 max)
 Load curves

Multi-measurement:
 I1, I2, I3, In, ΣP , ΣQ , ΣS , ΣPF
 P, Q, S, PF per phase
 Predictive Power
 Current unbalance (Inba, Idir, linv, lhom, Inb)
 Phi, cos Phi, tan Phi

Load type:	To be configured in the module: 1P+N - 1CT 2P - 1CT 2P+N - 2CT 3P - 1CT 3P - 2CT 3P - 3CT 3P+N - 1CT 3P+N - 3CT
Measurement level:	Power Quality Analysis
Measurement updating period:	Configurable from 200ms to 60s
Number of current inputs:	4
Number of Digital inputs/outputs:	2 Digital inputs / 2 Digital outputs
Power Quality measurements:	THD I1, I2, I3, In Individual harmonics I up to 63rd Inrush
Pulse counter:	Yes, 2 Digital inputs
Reactive Energy accuracy:	Class 2 for the global measurement chain with TE, TR or TF current sensors
Dimensions:	1.5 modules wide (27mm)



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