

48250501

Multifunction meter DIRIS A-40 ethernet com. + RS485 MODBUS gateway I/O 3/2



Strong points

- Plug & Play
- Facilitated integration
- Assisted configuration
- Better than revenue grade

General characteristics

Plug & Play: quick RJ12 connection to smart current sensors
Assisted configuration guarantees the fastest and most reliable commissioning
Embedded web based software WEBVIEW-S
Global accuracy class 0.5 (meter + sensors) in accordance with ANSI C12.20
Available in Modbus RTU or TCP, BACnet, Profibus

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

The DIRIS A-40 is a panel mounted power monitoring device compatible with TE/TR/iTR/TF smart current sensors, suitable for new or existing electrical installations.

The DIRIS A-40 has 3 native digital inputs and 2 digital outputs for additional versatility and includes RS485 Modbus RTU, Ethernet Modbus TCP and BACnet IP, and Profibus DP communication to report measurements to external management systems.

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

Standards

Conformity to standards	IEC UL
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Certificates and Declaration - Safety

Safety standards	IEC/EN 61010-1 UL 61010-2-030 CSA C22.2 No. 61010-2-030
UL file number	E257746

General Product Characteristics

Device type	Power Metering and Monitoring Device
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Technical Characteristics

Application	Analysis
Communication ports	RS485 + Ethernet
Communication protocols	Modbus RTU - Modbus TCP - BACnet IP
Model	A-40
Type	3 inputs/2 outputs

Technical Characteristics - Electrical

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

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-000007-V01.01-EN
Relative humidity	70 °C / 158 °F / 97% RH (IEC 60068-2-30)
Storage temperature	-25 ... +85 °C (IEC 60068-2-1/IEC 60068-2-2)

Technical Characteristics - Measurement

Accuracy class	Class 0.5
Current measurement type	AC
Frequency rating	50/60 Hz
General measurements	Currents,I1, I2, I3, In, Isystem, Voltages & frequency, V1, V2, V3, VN, Vsystem, U12, U23, U31,Usystem, f,Powers,P1, P2, P3, ΣP, Q1, Q2, Q3, ΣQ, S1, S2, S3, ΣS,

	Predictive powers ΣP , ΣQ , ΣS , Power factor, PF1, PF2, PF3, ΣPF , Cos ϕ & tangent ϕ , Instantaneous values per phase, Metering, Active energy: +/- kWh, Reactive energy: +/- kvarh, Apparent power: kVAh, Multi-tariff (8 max.), Hour Meter
Number of Digital inputs/outputs	3 Digital inputs / 2 Digital outputs
Power Quality measurements	Voltage unbalance V_{dir} , V_{inv} , V_{hom} , U_{dir} , U_{inv} , U_{nba} , V_{nba} , V_{nb} , U_{nb} , Current unbalance, I_{dir} , I_{inv} , I_{hom} , I_{nba} , I_{nb} , Total harmonic distortion, currents THDi1, THDi2, THDi3, THDiN, TDDI, Phase-to-neutral voltage THDv1, THDv2, THDv3, Phase-to-phase voltage THDu12, THDu23, THDu31, Individual harmonics up to 63rd, Currents: I1h, I2h, I3h, INh, Phase-to-neutral voltage: V1h, V2h, V3h, Phase-to-phase voltage: U12h, U23h, U31h
Voltage measurement type	AC
ETIM - Electrical characteristics	
Accuracy class active energy according to IEC 62053-22	0.2S
Sampling frequency [Hz]	10
Number of voltage measurement inputs	5
Number of current measurement inputs	3
Voltage type (supply voltage)	AC/DC
Supply voltage DC [V]	120..120
Measuring range for frequency [Hz]	45..65
Number of analogue outputs	2
Number of digital inputs	3
Number of Ethernet-connections	1
Supporting protocol for PROFIBUS	No
Supporting protocol for Modbus	Yes
Supporting protocol for other bus systems	No
Web server with HTTPS transfer protocol	Yes
ETIM - Mechanical characteristics	
Width [mm]	98
Height [mm]	98
Depth [mm]	85
ETIM - Technical features	
Ampere meter	Yes
Blind power meter	Yes
With rotational speed meter	No
Frequency meter	Yes
Pulse counter	Yes
Voltmeter	Yes
Effective power measurement device	Yes
Display	LCD
Remote display	No
Logistics	
GTIN/EAN	3596033009136
Customs number	9030320000
Price unit	PC
Weight of the packing unit [kg]	0.41
Length of the packing unit [m]	0.11
Width of the packing unit [m]	0.11

Depth of the packing unit [m]	0.12
Product Details	
Effective date	2017-03-23
Offer Life Cycle Code	40
Country of origin	FR
Classification	
UNSPSC	83101808
ETIM Class	EC002301
IGCC	6042