

48290150

DC voltage acquisition module DIRIS Digiware U-31dc 19.2-60 VDC



Strong points

- Single voltage measurement
- Flexible
- Plug & Play

General characteristics

Measure up to 180 VDC with direct connection and up to 1650 VDC with dedicated voltage adaptors
Unique voltage measurement point for the entire system
Compact to address space constraints inside electrical panels
No voltage on panel doors

Compliance with standards

UL 61010 Guide FTRZ/PICQ File E257746
IEC 61557-12
CEC compliant

Link to the reference

The DIRIS Digiware Udc modules measure the DC voltage and send the voltage sampling to all DIRIS Digiware Idc modules via the RJ45 bus. For multi-point metering applications, this reduces the number of voltage connections to only one central point. Measuring up to 180 VDC with a direct connection, they are compatible with typical nominal voltages (24 VDC, 48 VDC etc.). Voltage adaptors can be added to the DIRIS Digiware U-32dc module, making it compatible with all voltage levels up to 1650 VDC.

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	E257746
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	DC voltage measurement module for DIRIS Digiware DC system
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Technical Characteristics

Application	Analysis
Model	U-31DC
Rated voltage	24..48 VDC
Type	DC voltage acquisition module

Technical Characteristics - Environmental

Maximum operating altitude	6560 feet / 2000 m
Operating temperature	14 ... 131 °F / -10 ... +55°C
PEP ecopassport - ISO 14025	SOCO-00008-V01.01-EN
Relative humidity	131 °F / 55 °C / 97% relative humidity
Storage temperature	-13 ... 158 °F / -25 ... +70°C

Technical Characteristics - Measurement

Accuracy class	Class 0.5 w/o adapter, 1 with adapter
General measurements	DC Voltage
Power Quality measurements	V Ripple, Vrms
Voltage measurement type	DC

ETIM - Electrical characteristics

Sampling frequency [Hz]	10000
Number of voltage measurement inputs	2

Voltage type (supply voltage)	DC
Supply voltage DC [V]	0..24
Measuring range for frequency [Hz]	45..65
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]	18
Height [mm]	90
Depth [mm]	65
ETIM - Technical features	
Ampere meter	No
Blind power meter	No
With rotational speed meter	No
Frequency meter	No
Pulse counter	No
Voltmeter	Yes
Effective power measurement device	No
Display	None
Remote display	No
Logistics	
GTIN/EAN	3596033002830
Customs number	9030337000
Price unit	PC
Weight of the packing unit [kg]	0.09
Length of the packing unit [m]	0.12
Width of the packing unit [m]	0.08
Depth of the packing unit [m]	0.03
Product Details	
Effective date	2018-02-01
Offer Life Cycle Code	40
Country of origin	FR
Classification	
UNSPSC	83101808
ETIM Class	EC002301
IGCC	6042