

DIRIS Digiware Uac

Voltage acquisition module
for the DIRIS Digiware system



diris-dw_005_a_cat

DIRIS Digiware U-10ac/ U-30ac



Configuration
with Easy Config System.

Function

The **DIRIS Digiware Uac** module measures voltage for the entire system. This pools together all voltage measurements.

The Digiware RJ45 Bus allows you to pass voltage measurements as well as power supply and communication to all connected products.

Advantages

Safe

No hazardous voltage on cabinet doors.

Compact

- 1 single voltage measurement point for the entire system.
- Single point of protection for voltage measuring.

A complete dedicated solution

- Metering.
- Monitoring voltage.
- Quality analysis of the supplied voltage.

Adapted to all types of network: single-phase, three-phase.

General characteristics

- Voltage accuracy class 0.2
- Frequency accuracy class 0.02
- Compatible with all supply system types

The solution for

- > Industry
- > Building
- > Infrastructure
- > Data center



Strong points

- > Safe
- > Compact
- > A complete dedicated solution



RJ45 (Digiware Bus) cables are available.

Conformity to standards

- > IEC 61557-12





- > UL 61010
Guide PICQ
File E257746



Create your project

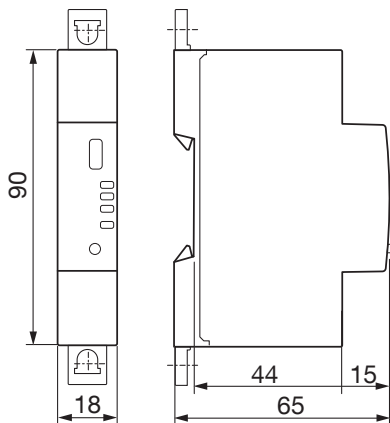
- > Find the best DIRIS Digiware configuration:
www.meter-selector.com



Application	Voltage measurement module	
	Metering	Analysis
		
	U-10ac	U-30ac
DIRIS Digiware Uac		
Multi-measurement		
U12, U23, U31, V1, V2, V3, f	•	•
U system, V system		•
Ph/N unbalance		•
Ph/Ph unbalance		•
Quality analysis		
THDv1, THDv2, THDv3, THDu12, THDu23, THDu31		•
Individual harmonics U & V (up to 63rd)		•
Voltage dips, swells and interruptions (EN 50160)		•
Alarms		
On threshold		•
History of average values		
45 days (max)		•
Format		
Width/number of modules	18 mm / 1	18 mm / 1

Dimensions (mm)

DIRIS Digiware Uac



Specifications

Measuring characteristics

Voltage measurement - DIRIS Digiware Uac

Characteristics of the network measured	50-300 VAC (Ph/N) - 87-520 VAC (Ph/Ph) - CAT III
Frequency range	45 ... 65 Hz
Frequency accuracy	Class 0.02
Network type	Single-phase/ Two-phase / Two-phase with neutral / Three-phase / Three-phase with neutral
Measurement by voltage transformer	Primary: 400 000 VAC Secondary: 60, 100, 110, 173, 190 VAC
Input consumption	≤ 0.1 VA
Permanent overload	300 VAC Ph/N
Accuracy of voltage measurement	Class 0.2
Connection	Removable screw terminal block, 4 positions, stranded or solid 0.2 ... 2.5 mm ² cable

Communication specifications

USB

Protocol	Modbus RTU on USB
Function	Configuration of DIRIS Digiware U and I modules
Location	On each DIRIS Digiware U and I measurement module
Connection	Type B micro USB connector

References

Dirigware connection cables	Reference
RJ45 cables for Digiware Bus	
Length 0.06 m	4829 0189
Length 0.10 m	4829 0181
Length 0.20 m	4829 0188
Length 0.50 m	4829 0182
Length 1 m	4829 0183
Length 2 m	4829 0184
Length 3 m	4829 0190
Length 5 m	4829 0186
Length 10 m	4829 0187
Reel 50 m + 100 connectors	4829 0185
Replacement reference: Digiware bus terminating resistor (supplied with C and D devices)	4829 0180
USB configuration cable	4829 0050

DIRIS Digiware		Reference
U-10ac	Metering	4829 0105
U-30ac	Analysis	4829 0102

Accessories	To be ordered in multiples of	Reference
Fuse holder to protect voltage inputs (type RM) 3 pole + neutral	3	5701 0019
gG 10x38 0.5 A fuses	10	6012 0000