

DIRIS Digiware Uac

Voltage measurement module

for the DIRIS Digiware system



DIRIS Digiware U-10ac / U-30ac



Configuration
with Easy Config System.

Function

The DIRIS Digiware Uac module acquires AC voltages for the entire system. It pools voltage measurements. The Digiware RJ45 Bus will transmit voltage measurements as well as power supply and communication to all connected products.

Advantages

Secure

No hazardous voltage on cabinet doors.

Compact

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

Flexible

- Metering,
 - Voltage monitoring,
 - Quality analysis of the supplied voltage.
- Suitable for all types of network: single-phase, three-phase.

General characteristics

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

The solution for

- > Industry
- > Service sector
- > Infrastructure
- > Data centre



Strong points

- > Secure
- > Compact
- > Flexible



RJ45 (Digiware Bus) cables are available.

Conformity to standards

- > IEC 61557-12



- > UL 61010 Guide PICQ File E257746



Create your project

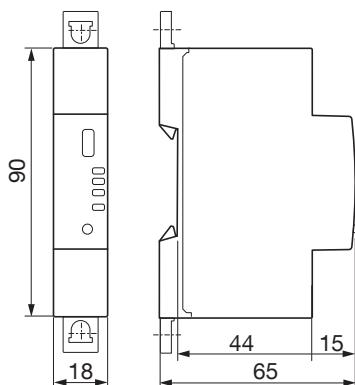
- > Find the best DIRIS Digiware configuration:
www.meter-selector.com



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, interruptions and overvoltages (EN 50160)		•
Alarms		
Thresholds and combinations		•
Trends		
Average values		•
Format		
Width/number of modules	18 mm / 1	18 mm / 1

Dimensions

DIRIS Digiware Uac



diris-dw_059_a_1_X_cat

Technical characteristics

Measurement 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
Voltage measurement accuracy	Class 0.2
Connection	Removable screw terminal block, 4 positions, stranded or solid 0.2-2.5 mm ² cable

Communication characteristics

USB	
Protocol	Modbus RTU over 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

Digiware 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
	50 m reel + 100 connectors	4829 0185
Replacement reference: termination for Digiware Bus (supplied with C-31 and D-50)		4829 0180
USB configuration cable		4829 0050
DIRIS Digiware		Reference
U-10	Metering	4829 0105
U-30	Analysis	4829 0102
Accessories		Reference
Fused disconnect switches to protect voltage inputs (RM type) 3 pole + neutral		5701 0019
0.5 A 10x38 gG fuses		6012 0000