

# DIRIS Digiware Uac

Voltage acquisition module



diris-dw\_005\_a\_cat

DIRIS Digiware U-10ac/U-20ac/ 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

- 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.
- No hazardous voltage on cabinet doors.
- Adapted to all types of network: single-phase, three-phase.

## The solution for

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



## Strong points

- > 1 single voltage measurement point for the entire system
- > Plug & Play
- > Compact



RJ45 (Digiware Bus) cables are available.

## Conformity to standards

- > IEC 61557-12



- > ISO 14025





- > UL



## Create your project

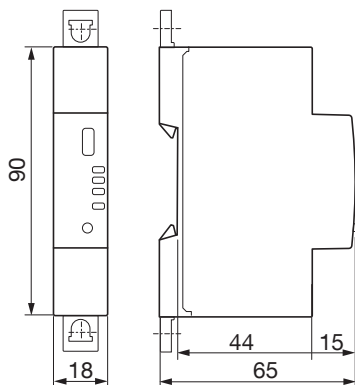
- > Find the best DIRIS Digiware configuration:  
[www.meter-selector.com](http://www.meter-selector.com)



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

### Dimensions (mm)

#### DIRIS Digiware Uac



diris-dw\_059\_b\_1\_x\_cat

### 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<br>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 <sup>2</sup> 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 |