



# DIRIS Digiware IO

## Digital and analogue input/output modules




***DIRIS Digiware IO-10***
*4 digital inputs/2 digital outputs*




***DIRIS Digiware IO-20***
*2 analogue inputs*

*Configuration with Easy Config System.*

## Function

DIRIS Digiware IO modules enrich the measurement system with multiple features:

- DIRIS Digiware IO-10 modules have 4 digital inputs and 2 digital outputs.
  The 4 digital inputs can be used to monitor the status of third-party devices (position of protective devices, trip counter) or to collect pulses from multi-fluid meters.
  The 2 digital outputs allow the remote control of third-party equipment signal.
  Alarms can be configured and assigned to the digital outputs.
- Thanks to their 2 analogue inputs, DIRIS Digiware IO-20 modules can collect data from analogue sensors (pressure, humidity, temperature...).

All the information reported by the IO-10 and IO-20 modules can be viewed on DIRIS Digiware D-xx displays and on Webview, the web server embedded in DIRIS G gateways and in the DIRIS Digiware D-70 display unit.

## Advantages

**Plug & Play**
The IO modules can be easily added anywhere within the measurement system thanks to a quick RJ45 connection.

**Multifunction**
The combination of voltage measuring modules, current measuring modules, and input/output modules makes DIRIS Digiware a complete and versatile system.

**Integrated**
All the reported information is accessible from the displays, from WEBVIEW or any other centralised management software.

**Compact**
The modular format allows the quick connection of a large number of IO-10 and IO-20 modules.

### The solution for

- Industry
- Building
- Data center



### Strong points

- Plug & Play
- Multifunction
- Integrated
- Compact

### Compliance with standards

- IEC 61557-12
- IEC 61010
- ISO 14025
- UL

### Create your project

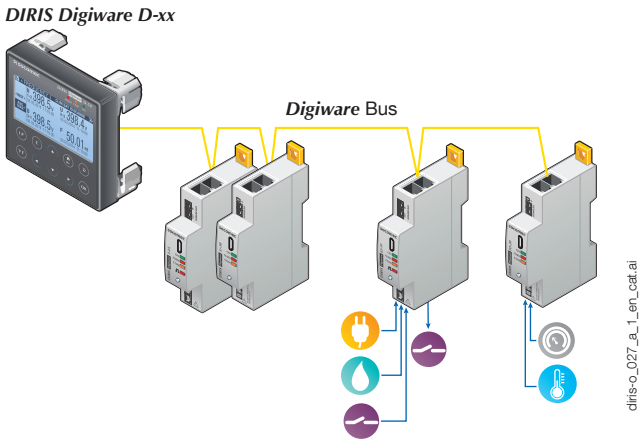
- Find the best DIRIS Digiware configuration:
  **www.meter-selector.com**

METER SELECTOR
DIGITAL TOOL AVAILABLE



socomec
Innovative Power Solutions

## Application diagram

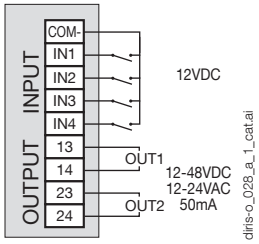



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## Connections

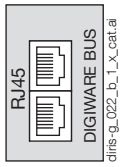
### DIRIS Digiware IO-10

**Digital inputs/outputs**




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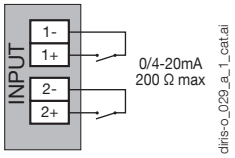
**Digiware Bus**




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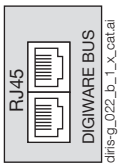
### DIRIS Digiware IO-20

**Analogue inputs**



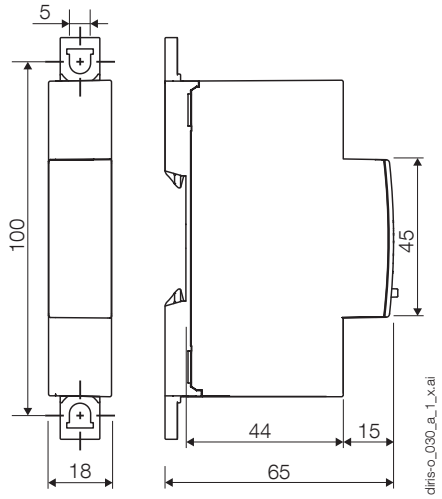

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**Digiware Bus**




diris-g_022_b_1_x_cat.ai

## Dimensions (mm)




diris-o_030_a_1_x.ai

## Technical characteristics

### Measuring characteristics

| Digital inputs/outputs- DIRIS Digiware IO-10 | |
|---|---|
| Number of inputs | 4 |
| Type/power supply | Insulated input, internal polarisation 12 VDC max., 3 mA |
| Input function | - Status of third-party devices<br>- Monitoring of protective devices (ON/OFF, Trip)<br>- Pulse counter |
| Number of outputs | 2 |
| Type | Insulated output, 48 VDC max., 50 mA and 24 VAC max. |
| Output function | - Remote control of devices<br>- Alarm signal linked to the inputs (exceeding threshold, status...) |
| Input/output connection | Removable screw terminal block, 9 positions (5 dedicated to inputs, 4 dedicated to outputs) Stranded or solid 0.14 to 1.5 mm² cable |
| **Analogue inputs - DIRIS Digiware IO-20** | |
| Number of inputs | 2 |
| Type/power supply | 0/4-20 mA, 200 Ω max |
| Accuracy | 0.5% full scale |
| Function | Connection of analogue sensors (pressure, humidity, temperature...) with choice of interpolation (linear or quadratic) |
| Input connection | Removable screw terminal block 2x2 positions, Stranded or solid 0.14 to 1.5 mm² cable |

## 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** |
| | Reel 50 m + 100 connectors | 4829 **0185** |
| Termination for Digiware Bus (supplied with interfaces C and D) | | 4829 **0180** |
| USB configuration cable | | 4829 **0050** |

| DIRIS Digiware input/output modules | | Reference |
|---|---|---|
| IO-10 | 4 digital inputs/2 outputs module | 4829 **0140** |
| IO-20 | 2 analogue input module | 4829 **0145** |