

DIRIS Digiware IO

Digital and analog input/output module



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

DIRIS Digiware IO-20
2 analog inputs



Function

DIRIS Digiware IO modules give more versatility to the DIRIS Digiware system.

- DIRIS Digiware IO-10 modules have 4 digital inputs and 2 digital outputs. The digital inputs can be used to monitor the status of third-party devices such as the physical position of a protective device (ON/OFF, trip), or to collect and count pulses from multi-utility meters. The digital outputs allow the remote control of protective devices by sending a binary output signal. Alarms from other DIRIS Digiware modules (U, I, S etc.) can be assigned to the IO-10's digital outputs to send signals upon specific conditions (high measurement for example) for additional actions and visibility.
- DIRIS Digiware IO-20 modules have 2 analog inputs used to collect analog signals from external sensors (pressure, humidity, temperature...).

Advantages

Plug & Play

The DIRIS Digiware IO modules can be easily added anywhere within the DIRIS Digiware system thanks to a quick RJ45 connection.

Multifunction

The addition of DIRIS Digiware IO-10/IO-20 modules makes DIRIS Digiware the most comprehensive and versatile power monitoring ecosystem in the market, reducing the need to source third-party equipment.

Connected

All the collected information is accessible from the displays, from WEBVIEW or can be communicated to any other centralized 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
- > Infrastructure
- > Data center



Strong points

- > Plug & Play
- > Multifunction
- > Connected
- > Compact

Compliance with standards

- > UL 61010-1, CSA-C22.22 No. 61010-1, Guide FTRZ/PICQ, File E257746



- > IEC 61557-12



- > ISO 14025



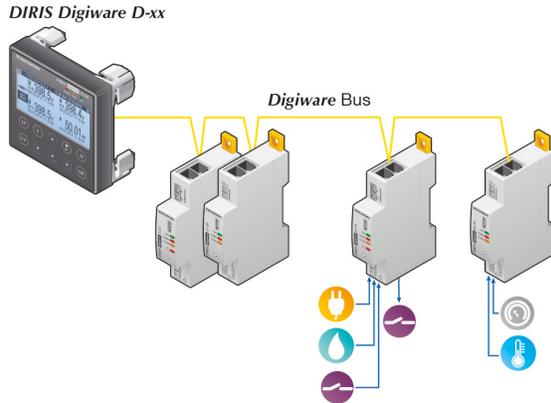
Create your project

- > Find the best DIRIS Digiware configuration:

www.meter-selector.com



Application diagram

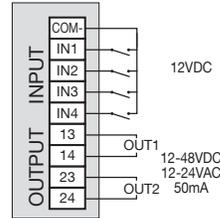


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Connections

DIRIS Digiware IO-10

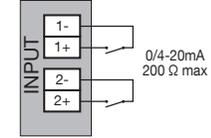
Digital inputs/outputs



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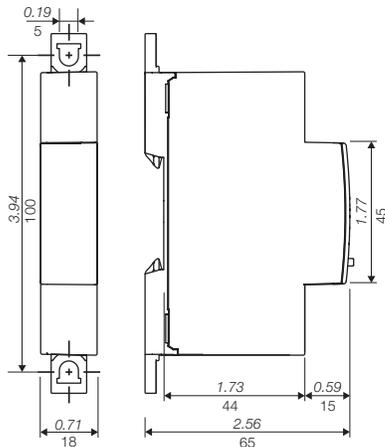
DIRIS Digiware IO-20

Analog inputs



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Dimensions (in/mm)



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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	- Logical status - Breaker position, trip and counter - Pulse counter
Number of outputs	2
Type	Insulated output, 48 VDC max., 50 mA and 24 VAC max.
Output function	- Remote control of status - Operate digital output upon alarm activation on another Digiware module
Input/output connection	Removable screw terminal block, 9 positions (5 dedicated to inputs, 4 dedicated to outputs) AWG 16 to AWG 26 / 0.4 to 1.5 mm ² stranded or solid cable

Analog 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 analog sensors (pressure, humidity, temperature...) with choice of interpolation (linear or quadratic)
Input connection	Removable screw terminal block, 2x2 positions, AWG 14 to AWG 24 / 0.25 to 2.5 mm ² stranded or solid cable

References

DIRIS Digiware IO		Reference
IO-10	4 digital inputs / 2 digital outputs	4829 0140
IO-20	2 analog 0/4-20mA inputs	4829 0145

Accessories		Reference
Digiware Bus terminating resistor (already supplied with DIRIS Digiware C, M & D)		4829 0180
6.5-ft USB Cable for configuration - Type A to Type Micro-B		4829 0050

Digiware bus cables ⁽¹⁾		Reference
RJ45 cables for Digiware Bus	Length 0.20 ft / 0.06 m	4829 0189
	Length 0.32 ft / 0.10 m	4829 0181
	Length 0.66 ft / 0.20 m	4829 0188
	Length 1.64 ft / 0.50 m	4829 0182
	Length 3.28 ft / 1 m	4829 0183
	Length 6.56 ft / 2 m	4829 0184
	Length 9.84 ft / 3 m	4829 0190
	Length 16.4 ft / 5 m	4829 0186
	Length 32.8 ft / 10 m	4829 0187
	164.04 ft / 50 m reel + 100 connectors	4829 0185

(1) To guarantee the proper operation of the DIRIS Digiware system, do not substitute Socomec Digiware bus cables with standard Ethernet RJ45 cables.

Commissioning		Reference
1/2 day remote commissioning	Remote commissioning including installation verification, programming and communication testing	9230100027
1/2 day on-site commissioning	On-site commissioning including installation verification, programming and communication testing	9230100004