



DIRIS Digiware IO

Digital and analog input/output modules

**Multi-circuit metering
and measurement**



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

DIRIS Digiware IO-20
2 analog inputs

 Configuration with EasyConfig 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 protection devices and removable drawers (ON/OFF, trip counter) or to collect pulses from multi-fluid meters. The 2 digital outputs allow the remote control of switching devices by sending a binary output signal. Alarms can be configured and assigned to the digital outputs.

- Due to the modules 2 analog inputs, DIRIS Digiware IO-20 modules can collect the data from analog sensors (pressure, humidity, temperature...).
- All the information reported by the IO-10 and IO-20 modules 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 M 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 due 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.

Connected

All the reported information is accessible from the displays, from Webview or 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-C22.2 No. 61010-1, Guide PICQ, File E257746



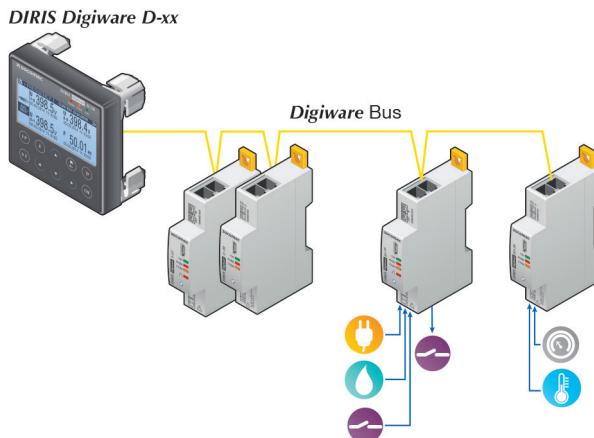
- IEC 61557-12



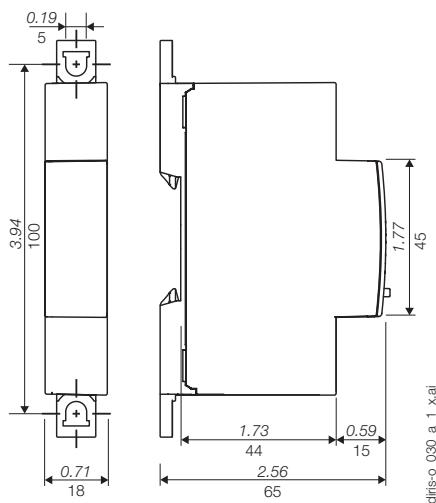
- ISO 14025



Application diagram



Dimensions (in/mm)

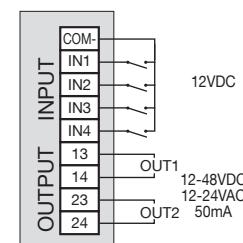


Connections

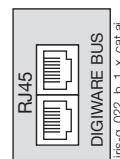
DIRIS Digiware IO-10

Digital inputs/outputs

Digiware Bus



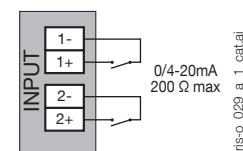
diris-o_028_a_1_cat5ai



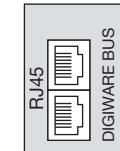
DIRIS Digiware IO-20

Analog inputs

Digiware Bus



diris-g_022_b_1_x_cat5ai



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 - Status of the circuit breaker, of the drawer (ON/OFF, trip 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 - 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 mm ² 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 15 to AWG 35 or 0.14 to 1.5 mm ² stranded or solid cable

References

Digiware connection cables		Reference
RJ45 cables for Digiware Bus	Length 0.32 feet/0.10 m	4829 0181
	Length 0.66 feet/0.20 m	4829 0188
	Length 1.64 feet/0.50 m	4829 0182
	Length 3.28 feet/1 m	4829 0183
	Length 6.56 feet/2 m	4829 0184
	Length 4.84 feet/3 m	4829 0190
	Length 16.4 feet/5 m	4829 0186
	Length 32.8 feet/10 m	4829 0187
	Length 164 feet/50 m reel + 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 analog input module	4829 0145