

ISOM Digiware D-55 / D-75

Control and power supply interfaces



ISOM Digiware D-75



Configuration
with Easy Config System.

Function

The power monitoring interfaces **ISOM Digiware D-55** and **D-75** allow the following:

- A local visualisation of data from ISOM Digiware L-60 and F-60 modules, but also from the other modules connected to the Digiware network or from COUNTIS E and DIRIS A over the RS485 bus
- Power supply of Digiware modules
- Access to this data over Ethernet

Via an RS485 connection, the ISOM Digiware screen also acts as a gateway, centralising all measurements from the measuring devices and making this information available on Ethernet. Version specially designed for healthcare establishments.

Advantages

High-resolution graphic screen

The screen displays various graphical objects such as bar graphs and insulation curves with measurement cursors.

Secure power supply

The 24 VDC power supply prevents hazardous voltages on the cabinet doors.

Ergonomic and easy to use

With its 10 buttons on the front panel, you can quickly access the measurement information. The Quick-Access button lets you quickly and easily navigate between the main operating screens.

It also makes it much easier to select and configure equipment and circuits.

Centralising measurement points:

- Selecting the circuit
- Viewing the data

Email notifications

In the event of an alarm, the device can automatically send an email to prevent use (e.g. if there is an insulation fault).

Embedded web server (D-75)

Accessed simply using the Web browser from a PC, this integrated function on the ISOM Digiware D-75 allows you to show the information from all connected devices (WEBVIEW-M function).

The solution for

- > Industries
- > Energy production
- > Naval, military and railway infrastructures



Strong points

- > High-resolution graphic screen
- > Secure power supply
- > Ergonomic and easy to use
- > Centralisation of measurement points
- > Email notifications
- > Embedded web server (D-75)

Conformity to standards

- > IEC 61557-8
- > IEC 61557-9
- > IEC 61557-12
- > ISO 14025



Approvals and certifications

- > Naval certifications ⁽¹⁾

(1) Certification in progress.

Create your project

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



Expert Services



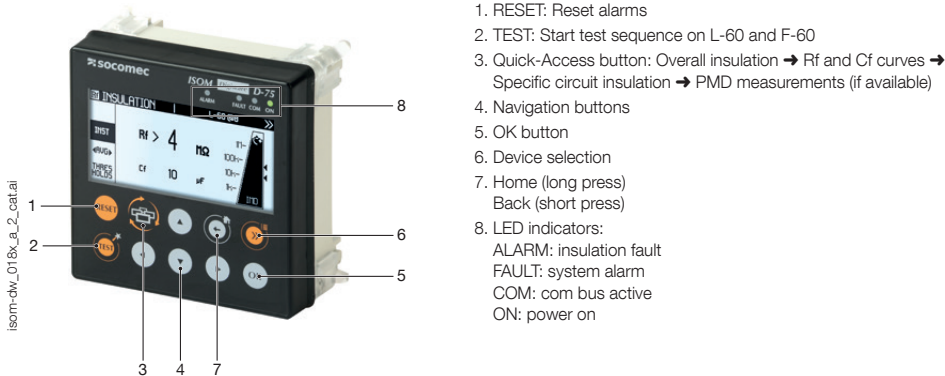
EXPERT
SERVICES

Socomec offers a range of services to help you optimise your electrical installations and increase efficiency:

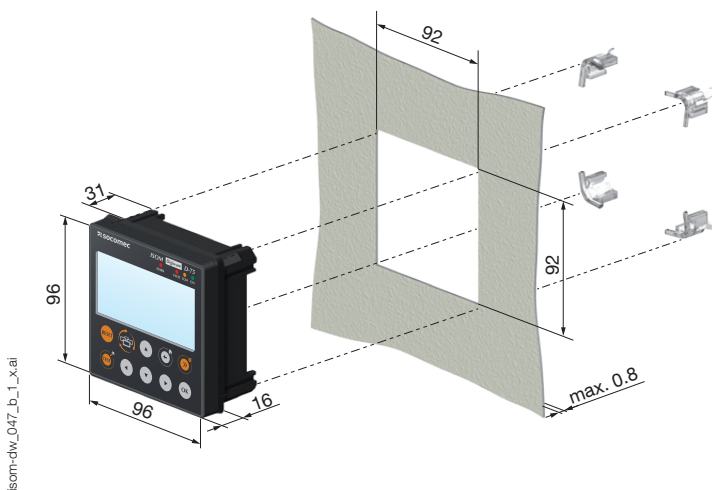
- Startup
- Checking the insulation monitoring architecture (NFC 15100)
- Fault-finding
- Training on the handheld fault location tool, ISOM PS-62

To find out more, ask your Socomec representative.

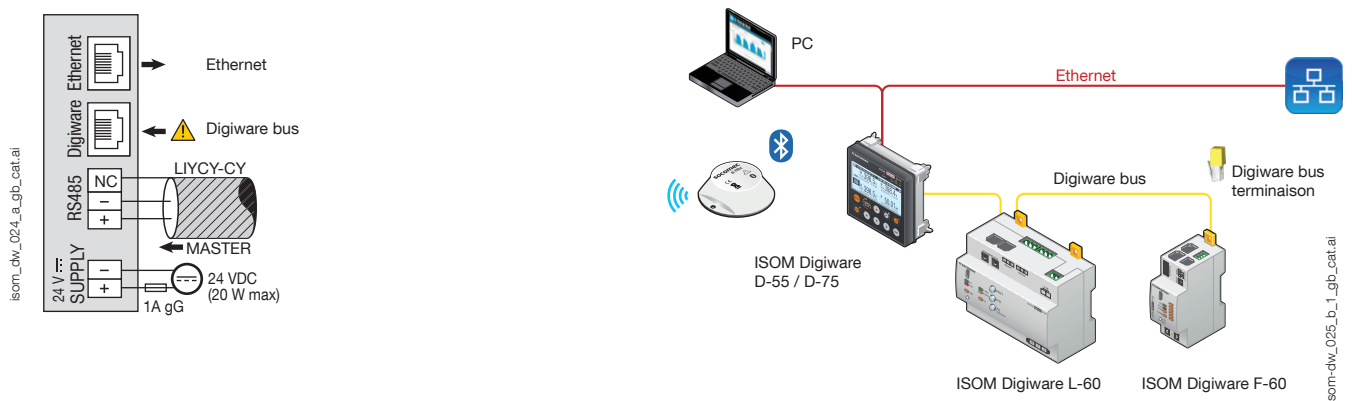
Front panel



Dimensions (mm)



Connections



ISOM Digiware D-55 / D-75

Control and power supply interfaces

Configuration

Equipment power consumption

Product	Power supplied (W)	Power consumed (W)
Power supply		
P15 230 V / 24 VDC 15 W	15	
P30 230 V / 24 VDC 30 W	30 ⁽¹⁾	
Cables		
50-metre bundle		1.5
System interfaces		
ISOM Digiware D-55 / D-55h		2.5
ISOM Digiware D-75		2.5
IMD / voltage module		
ISOM Digiware L-60 / L-60h		2.3
DIRIS Digiware U-xx		0.75
FLD modules		
ISOM Digiware F-60		0.5
ISOM T-15 + ΔIP		0.05
Single-point alert report		
ISOM D-15h		0.5
Repeater		
DIRIS Digiware C-32		1.5

(1) Max 20 W for use by the Digiware system.

Calculation rules for the max. number of devices on the Digiware bus

The total power consumed by the equipment connected to the Digiware bus must not exceed the power from the 24 VDC. The power supply must not exceed 20 W.

Sizing with power supply P15 (reference 4829 0120) delivering 15 W

For example, it is possible to use

- 1 ISOM Digiware D-75 (2.5 W) display
- 1 ISOM Digiware L-60 IMD module (2.3 W)
- 25 metres of cable (0.75 W)

and

- 11 FLD ISOM Digiware F-60 (11 x 0.5 = 5.5 W) modules
- 66 adapters ISOM T-15 (66 x 0.05 = 3.3 W)

-> Total power = 14.35 W

Sizing with a supply P30 power supply (reference 4729 0603) can deliver max. 20 W to the Digiware system

For example, it is possible to use

- 1 ISOM Digiware D-75 (2.5 W) display
- 1 ISOM Digiware L-60 IMD module (2.3 W)
- 1 DIRIS Digiware U-xx (0.72 W) voltage module
- 25 metres of cable (0.75 W)

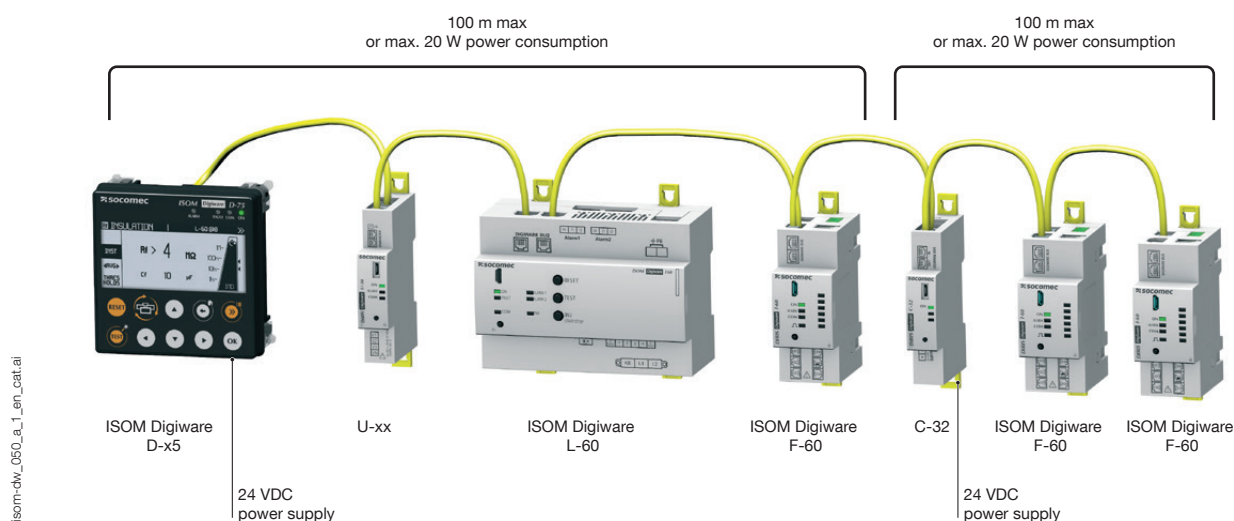
and

- 17 FLD ISOM Digiware F-60 (17 x 0.5 = 8.5 W) modules
- 102 adapters ISOM T-15 (102 x 0.05 = 5.1 W)

-> Total power = 19.87 W

Repeater

Whenever the power consumption is higher than 20 W or the distance is greater than 100 m, a DIRIS Digiware C-32 repeater is required. In an ISOM Digiware system, a maximum of 2 repeaters may be used.



Technical specifications

Digiware bus		Communication	
Function	Connects ISOM Digiware modules	Ethernet RJ45 10/100 Mbps	Gateway function: Modbus TCP
Cable type	Specific Socomec cable with RJ45 connection	RJ45 Digiware	Control and power supply interface function
RS485		RS485 2-3 wires	Communication function with Modbus RTU slaves
Connection type	2 to 3 half duplex wires	USB	Upgrade and configuration via type B micro USB connector
Protocol	Modbus RTU	Ports	
Baudrate	1,200 to 115,200 bauds	Inputs	Digiware; RS485
Mechanical specifications		Outputs	Ethernet RJ45
Type of screen	Capacitive touch-screen technology, 10 keys	Operating conditions	
Screen resolution	350 x 160 pixels	Storage temperature	-40 to 70 °C
Front panel protection degree	IP 65	Operating temperature	-10 to +55 °C
Electrical specifications		Relative humidity	90% at 55 °C
Power supply	24 VDC +10% / -20%	Installation category - degree of pollution	CAT III, 2
Power consumption	2.5 VA	Operating conditions (version t)	
		Storage temperature	-40 to 85 °C
		Operating temperature	-10 to 70 °C
		Relative humidity	97% at 55 °C

References

Standard displays		Reference
D-55	Multipoint display, Ethernet output	4729 0203
D-75	Multipoint display, Ethernet output with web server	4729 0205
Heavy-duty display model		Reference
D-75t	Multipoint display, Ethernet output with web server	4729 0206
Power supply		Reference
P15	Power supply 100-240 VAC / 24 VDC 15 W	4829 0120
P30	Power supply 100-240 VAC / 24 VDC 30 W	4729 0603
Accessories		Reference
Flush mounting kit DIN 144 x 96 mm		4729 0290
IP65 flexible enclosure for 144 x 96 mm DIN frame		4729 0291
DIN rail mounting kit for ISOM Digiware D-5x monitors		4829 0230
Fuse holder, 1 pole + neutral to protect input voltages (RM)	4	5701 0017
gG 10x38 1 A fuses	10	6012 0001
DIN rail mounting kit for D-55 and D-75 monitors	1	4829 0230
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
Termination for Digiware Bus (supplied with interfaces C and D)		4829 0180
USB configuration cable		4829 0050