DIRIS Digiware S

Current measurement module with built-in sensors

for 3 circuits







Configuration with Easy Config System.



DIRIS Digiware S

The solution for

- > Data centre
- > Healthcare

Strong points

- > Plug & Play
- > Multi-circuit
- > Compact
- > Accurate
- > MID certified and more



Function

DIRIS Digiware S current acquisition modules have 3 integrated current sensors for the measurement of electrical circuits up to 63 A.

Positioned directly above or below the protective devices, they are associated with the DIRIS Digiware U voltage measurement module to measure consumption, and to monitor the electrical installation and the quality of the power supply.

Advantages

Plug & Play

- Save wiring time: the current sensors are integrated in the module.
- Quick RJ45 connection between modules.
- Positioning possible upstream or downstream of the protective device.

Multi-circuit

Multiple DIRIS Digiware S modules can be used within the measurement system enabling the monitoring of a large number of loads.

Compact

- A measurement module offering the best compactness/performance ratio of the market.
- Matches the pitch of the protective device.

Accurate

DIRIS Digiware S modules offer class 0.5 accuracy (IEC 61557-12) and class C (EN 50470), allowing accurate measurements ove a wide current range.

MID certified and more

DIRIS Digiware S-130MID and S-135MID current modules comply with the MID Directive and guarantee accurate and reliable metering.

"Module B+D" certification means that an outside laboratory has certified the design of the meter and its production process.

They are also fitted with innovative functions that go beyond the standard offerings on the market:

- Innovative tamper-resistance systems: the MID modules have a smart alarm system that is more effective than the standard mechanical seals offered by MID meters.
- Integrated PreciSense Technology: MID modules have a class C energy accuracy measurement, which is the most accurate class under the MID directive. In addition, as with any DIRIS Digiware system, PreciSense technology offers the best accuracy on the market across the chain.

Integrated technologies







For more information see our website www.socomec.com

Conformity to standards

> IEC 61557-12

> UL 61010 Guide FTRZ/PICQ File E257746





- > ANSI C12.20
- > EN 50470-1



- > EN 50470-3
- > Directive 2014/32/EU



- General characteristics

 3 integrated current sensors
- Measurement up to 63 A
- Configurable as 3 single-phase circuits or 1 three-phase circuit

Also available

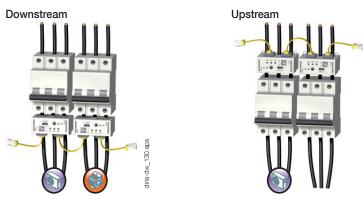


DIRIS Digiware BCM

In 18 or 21 circuits versions for the power distribution units (PDU) monitoring.



Functional diagram



The DIRIS Digiware S measurement module can be mounted upstream or downstream of the protective device solving issues of space constraints.

S-130	S-130MID	Ana S-135	
3		S 125	A CENTRAL OF THE PROPERTY OF T
3		\$ 125	
		3-133	S-135MID
40.4	3	3	3
	10 A	10 A	10 A
63 A	63 A	63 A	63 A
2P / 2P + N	1P + N 2P / 2P + N 3P / 3P + N	1P + N 2P / 2P + N 3P / 3P + N	1P + N 2P / 2P + N 3P / 3P + N
•	•	•	•
		•	•
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		•	•
		•	•
		•	•
•	•	•	•
		•	•
54 mm	54 mm	54 mm	54 mm
	10 A 63 A 1P+N 2P/2P+N 3P/3P+N	10 A 10 A 63 A 63 A 1P+N 2P/2P+N 3P/3P+N 3P/3P+N	10 A

To be compliant with the MID directive, the DIRIS Digiware system must be equipped with a D-50/D-70 display.



Mounting accessories

Temporary MCB insert (for use during panel assembly)



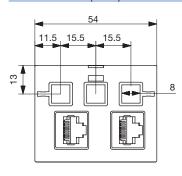
DIN rail and back plate mounting

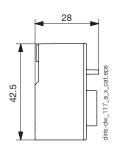


Cable tie tether



Dimensions (mm)

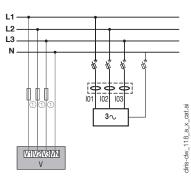




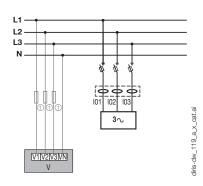
Connections

Current is measured by the integrated inputs IO1, IO2 and IO3 on the DIRIS Digiware S module.

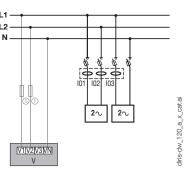
3P+N - 3CT



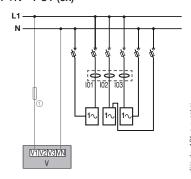
3P - 3 CT



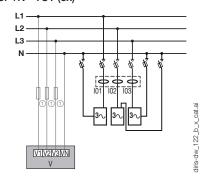
2P+N - 2CT & 2P+N - 1CT



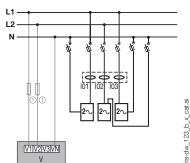




3P+N - 1CT (3x)



2P+N - 1CT (3x)







Fuses: 0.5 A gG/BS 88 2 A gG/0.5 A class CC



Technical characteristics

Measurement characteristics

Measurement of current			
3			
Integrated in the product			
10 A			
63 A			
Class 0.5 IEC 61557-12			
Measurement of energy			
Class 0.5 (IEC 61557-12) / Class C (EN 50470)			
Class 1 IEC 61557-12			

Mechanical characteristics

Casing type	DIN rail or back plate mounting
Casing protection index	IP20/IK08
Weight	63 g
Module power consumption	0.35 VA

Communication specifications

BUS Digiware			
Function	Connection between DIRIS Digiware S, U, I modules and system interfaces		
Cable type	Specific Socomec cable with RJ45 connections		
USB			
Protocol	MODBUS RTU on USB		
Function	Configuration of DIRIS Digiware modules		
Location	On each DIRIS Digiware module		
Connection	Type B micro USB connector		

Caractéristiques environnementales

Ambient operating temperature	-10 +55 °C
Storage temperature	-25 +70 °C
Operating humidity	40 °C/95 % HR
Operating altitude	< 2000 m

Références

DIRIS Digiware S		Référence
S-130	Metering - 3 integrated current inputs	4829 0160
S-130MID Metering - 3 integrated current inputs + MID		4829 0163
S-135	Analysis - 3 integrated current inputs	4829 0161
S-135MID	Analysis - 3 integrated current inputs + MID	4829 0164
Accessories		Référence
DIN rail and back plate mounting clip (x10)		4829 0195
Temporary MCB insert (x10)		4829 0196

To be compliant with the MID directive, the DIRIS Digiware system must be equipped with a D-50/D-70 display.

Digiware connection cables		Référence	
	Length 0.06 m ⁽¹⁾	4829 0189	
	Length 0.10 m	4829 0181	
	Length 0.20 m	4829 0188	
	Length 0.50 m	4829 0182	
RJ45 cables	Length 1 m	4829 0183	
for Digiware Bus	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	
(1) T. D.((5)			

(1) The RJ45 6 cm cables can be used on 3-pole or 4-pole protective devices.

Expert services



To continuously guarantee a functional and accurate energy monitoring system, Socomec offers a wide range of services:

- EXPERT SERVICES
- Incorporation of devices. • System audit.
- Commissioning.
- Training for your teams.

Also, Ideal for ISO 50001 sites (periodic verification):

- Measurement consistency check to 3%.
- Measurement accuracy check to 0.2%.

For more information, please call your Socomec contact

