DIRIS DigiBOX

Enclosed solution for retrofit metering applications
Single and multi-circuit applications

DIRIS DigiBOX 8
Centralization and display of data

DIRIS DigiBOX 1
Centralization

The solution for

> Industry
> Building
> Infrastructure
> Local authority

Strong points

> Plug & Play
> Accurate
> Safe & reliable

Conformity to standards

> UL508A

> IEC 61557-12

> ISO 14025

Function

Socomec's enclosed metering line **DIRIS DigiBOX** is designed to offer a complete and modular metering solution in NEMA1/3R enclosures for indoor and outdoor use. With ease of installation for retrofit applications and factory pre-wired Plug & Play technology, DIRIS DigiBOX solutions provide considerable savings in installation costs. The solution offers the benefits of the Digiware technology.

Advantages

Plug & Play
• Factory pre-wired internally.
• RJ12 current sensor connection.
• Automatic detection of ratings and verification of current flow direction.
• Disconnection of the current sensor secondary under load.
(1) See page 54.

Accurate
Accuracy of measurements guaranteed according to ANSI C12.20 and IEC standard 61557-12:
• Better than revenue grade: class 0.5 from 2 % to 120 % of rated current for the global measurement chain (associated with TE / TF current sensors).
• Class 0.2 for the meter alone.

Safe & reliable
• Durable NEMA 1/3R.
• UL listed enclosures and components.
• UL 508A assembly facility.
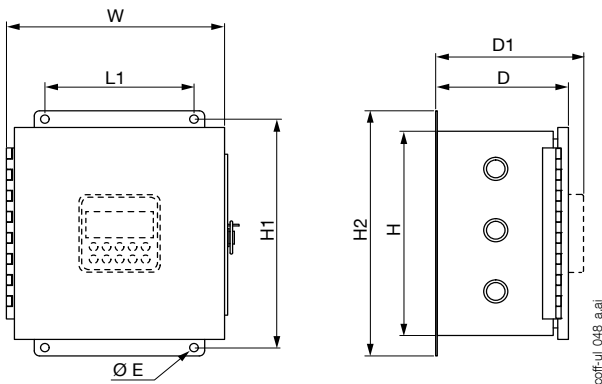• Fused voltage connections.
• Reliable detailed wiring instructions.

socomec
Innovative Power Solutions

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Specifications

	DigiBOX				DigiBOX Pro				DigiBOX Flex
Number of metered points	1	4	6	8	1	4	6	8	
Number of current inputs	4	12	18	24	4	12	18	24	
Metering modules	DIRIS B10	DIRIS Digiware	DIRIS Digiware	DIRIS Digiware	DIRIS B30	DIRIS Digiware	DIRIS Digiware	DIRIS Digiware	
Multi-measurement									Customized solution
Currents, voltages (ph/ph and ph/n), active/reactive/apparent powers, power factor, frequency	•	•	•	•	•	•	•	•	
Voltage/current unbalance	•				•	•	•	•	
Power factor, cos Phi, tan Phi	•				•	•	•	•	
Metering									
kWh(+/-), kvarh (+/-), kVAh	•	•	•	•	•	•	•	•	
Multi-tariff	•				•	•	•	•	
Load curves					•	•	•	•	
Power Quality									
THDV, THDU, THDI	•				•	•	•	•	
Individual harmonics V, U & I (up to rank 63)					•	•	•	•	
Voltage dips, cut-offs and surges (EN50160)					•	•	•	•	
Overcurrents					•	•	•	•	
Alarms					•	•	•	•	
Communication	RS485/Ethernet								
Enclosure rating	NEMA 1/3R								
Display & gateway	Optional								
Dimensions									
H x W x D (inches)	10 x 10 x 6.2	12 x 12 x 6.6	12 x 12 x 6.6	12 x 12 x 6.6	10 x 10 x 6.2	12 x 12 x 6.6	12 x 12 x 6.6	12 x 12 x 6.6	
References									
No display	USDBB01ND0	USDBB04ND0	USDBB06ND0	USDBB08ND0	USDBP01ND0	USDBP04ND0	USDBP06ND0	USDBP08ND0	
With display	USDBB01D30	USDBB04D50	USDBB06D50	USDBB08D50	USDBP01D30	USDBP04D50	USDBP06D50	USDBP08D50	
Display & gateway					USDBP01D50		USDBP06D70	USDBP08D70	
Customized metering and communication solution	Made to order - contact us								

DigiBOX accessory enclosures

Description	Reference
12 x 12 x 6.6 - NEMA 3R - Enclosure only with back-plate and 2 DIN rails	USDBENC-001
10 x 10 x 6.2 - NEMA 1 - Enclosure only with back-plate and 1 DIN rail	USDBENC-002
12 x 10 x 6.2 - NEMA 3R - Polycarbonate Enclosure with display cutout	USDBENC-003

Dimensions (in)

	H	H1	H2	D	D1	L1	W	Ø E
DigiBOX and DigiBOX Pro 1 without display	10	11	12	6.2	-	7	10	0.28
DigiBOX and DigiBOX Pro 1 with display	10	11	12	6.2	7	7	10	0.28
DigiBOX and DigiBOX Pro 4, 6 & 8 without display	12	13.5	14.6	6.6	-	3	12	0.25
DigiBOX and DigiBOX Pro 4, 6 & 8 with display	12	13.5	14.6	6.6	7	3	12	0.25