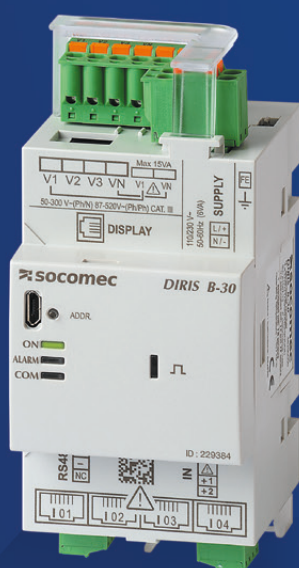


Multifunction power monitoring devices

DIRIS B



Monitor

your remote measurement points

DIRIS B meters communicate by radio frequency via LoRaWAN communication protocol or RS485 wired via MODBUS RTU. Measurement and metering data can be displayed on a DIRIS D-30 remote screen or centralised and made available on an Ethernet network using a DIRIS Digiware D or M communication gateway.

Advantages



Flexible

Multi-circuit

Ability to monitor several circuits thanks to four independent current inputs. For example, it allows to measure or monitor:

- 1 three-phase load
+ 1 single-phase load,
- 4 single-phase loads.

Compact

Modular, 3 modules device.



Connected

- Radio-Frequency LoRaWAN protocol.
- Multi-protocol: Modbus, BACnet, PROFIBUS.
- Remote DIRIS D-30 screen for displaying measurement and metering data.



Accurate

Accuracy of measurements

guaranteed according to IEC standard 61557-12:

- 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.



Plug & Play

Rapid & reliable connection (RJ12) of current sensors

- Automatic detection of ratings and correction of current flow direction.
- Prevents wiring errors, allows disconnection of the current sensor secondary under load.

Auto-configuration

Automatic detection of parameters:

- Network type.
- Load type.
- Device addressing.
- Current sensor ratings.



Selection guide

	DIRIS B-10 RS485	DIRIS B-10 L RF	DIRIS B-30 RS485
Multi-measurement			
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			•
Quality analysis			
THDV, THDU, THDI	•	•	•
Individual harmonics V, U & I (up to rank 63)			•
Voltage dips, cut-offs and surges (EN50160)			•
Overcurrents			•
Alarms			
Communication			
RS485 Modbus	•	•	•
Radio-frequency 863-870 MHz LoRaWAN		•	
2 inputs (status/pulse)	•	•	•
References	4829 0010	4829 0900	4829 0000

OPTIONAL MODULES ⁽¹⁾	
2 inputs/2 outputs, digital	4829 0030
2 inputs/2 outputs, analogue, 4-20 mA	4829 0031
3 temperature inputs, PT100/PT1000	4829 0032
RS485 Modbus esclave interface	4829 0033
PROFIBUS communication	4829 0034

DISPLAY	
DIRIS D-30 single-point display	4829 0200

(1) Up to 4 optional modules per meter.

Associated current sensors

TE, TR and TF

A rapid RJ12 connection makes wiring easy and reliable. The accuracy of the global measurement chain is guaranteed according to standard IEC 61557-12:

- class 0.5 with TE or TF current sensors,
- class 1 with TR current sensors.



RJ12 cables with fail-safe mechanisms are available ; refer to the relevant pages of the catalogue.

TE Solid current sensors

Suitable for new installations - Match the pitch of protective devices.

TE solid-core sensors		Rated currents (A)										Real range covered (A)	Pitch (mm)	Aperture (mm)	Dimensions (mm)
		5	20	25	40	63	160	250	400	600	630	1000	2000		
	TE-90											12 ... 2400	90	64 x 64	126 x 90 x 24,6
	TE-55											8 ... 1200	55	41 x 41	100 x 55 x 32,5
	TE-45											3,2 ... 756	45	31 x 31	86 x 45 x 32,5
	TE-35											1,26 ... 300	35	21 x 21	71 x 35 x 32,5
	TE-25											0,8 ... 192	25	13,5 x 13,5	65 x 25 x 32,5
	TE-18											0,5 ... 75	18	Ø 8,6	45 x 28 x 20
	TE-18											0,1 ... 24	18	Ø 8,6	45 x 28 x 20

TR Split-core current sensors

Suitable for existing installations.

TR/iTR split-core sensors		Rated currents (A)						Real range covered (A)	Aperture (mm)	Dimensions (mm)
		25	40	63	160	250	600			
	TR/iTR-32							3,2 ... 720	Ø 32	53 x 86 x 47
	TR/iTR-21							1,26 ... 300	Ø 21	37 x 65 x 43
	TR/iTR-14							0,8 ... 192	Ø 14	29 x 67 x 28
	TR/iTR-10							0,5 ... 75	Ø 10	26 x 44 x 28

TF Flexible (Rogowski) current sensors

Suitable for existing installations with space restrictions or with high-intensity currents.

TF flexible sensors		Rated currents (A)								Real range covered (A)	Aperture (mm)
		100	150	400	600	1600	2000	4000	6000		
	TF-600									32 ... 7200	Ø 600
	TF-300									32 ... 7200	Ø 300
	TF-200									12 ... 4800	Ø 200
	TF-120									8 ... 2400	Ø 120
	TF-80									3 ... 720	Ø 80
	TF-55									3 ... 720	Ø 55

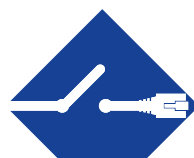
Groundbreaking technologies for greater simplicity and performance*



PreciSense

Best-in-class accuracy

- For the global measurement chain.
- Even at low load current.



VirtualMonitor

Smart monitoring of your protective devices

- Across your entire electrical installation.
- Remotely and in real-time.
- Without additional hardware or wiring.



AutoCorrect

Guaranteed reliability

- Automatic detection of wiring errors.
- Remote software correction.
- Feature available off-load.

* Only available with DIRIS Digiware AC.

Socomec, l'innovation au service de votre performance énergétique

1 constructeur indépendant

3 900 collaborateurs
dans le monde

8 % du CA
consacrés au R&D

400 experts
dédiés aux services

L'expert de votre énergie



COUPURE



MESURE



CONVERSION
D'ÉNERGIE



STOCKAGE
D'ÉNERGIE



SERVICES
EXPERTS

Le spécialiste d'applications critiques

- Contrôle, commande des installations électriques BT.
- Sécurité des personnes et des biens.
- Mesure des paramètres électriques.
- Gestion de l'énergie.
- Qualité de l'énergie.
- Disponibilité de l'énergie.
- Stockage de l'énergie.
- Prévention et intervention.
- Mesure et analyse.
- Optimisation.
- Conseil, déploiement et formation.

Une présence mondiale

12 sites industriels

- France (x3)
- Italie (x2)
- Tunisie
- Inde
- Chine (x2)
- USA (x2)
- Canada

30 filiales et implantations commerciales

- Afrique du Sud • Algérie • Allemagne • Australie
- Autriche • Belgique • Canada • Chine • Côte d'Ivoire
- Dubaï (Emirats Arabes Unis) • Espagne • France • Inde
- Indonésie • Italie • Pays-Bas • Pologne • Portugal
- Roumanie • Royaume-Uni • Serbie • Singapour • Slovaquie
- Suède • Suisse • Thaïlande • Tunisie • Turquie • USA

80 pays

où la marque est distribuée

SIÈGE SOCIAL

GROUPE SOCOMEC

SAS SOCOMEC au capital de 10 582 640 €
R.C.S. Strasbourg B 548 500 149
B.P. 60010 - 1, rue de Westhouse - F-67235 Benfeld Cedex
Tél. 03 88 57 41 41 - Fax 03 88 57 78 78
info.scp.isd@socomec.com

VOTRE CONTACT

www.socomec.com



100 years
OF SHARED ENERGY

socomec
Innovative Power Solutions



Document non contractuel. © 2023, Socomec SAS. Tous droits réservés. - Document imprimé sur papier issu de forêts gérées durablement.

DOC 01362 01 en - 07/23 - Photo: Martin Bernhart - Réalisation: Socomec