DIRIS A & DIRIS B

Power Metering and Monitoring Devices

your energy
our expertise

socomec

Innovative Power Solutions

DIRIS A & DIRIS B
A comprehensive range for single-point Metering

Choose

Application

New installations
Smart sensors match the pitch of protective devices

Existing installations
Split-core or Rogowski coil smart sensors

Mounting

DIN rail

Panel

Remote display

and Monitoring

APPLI 812 A

Monitor and optimise your energy consumptions

| Class **0.5** | **MID** | Multi-tariff | **Embedded** Webserver |

Guarantee the availability of your electrical installation and the safety of your assets

Monitor the electrical installation
• Tracking of instantaneous parameters (U, I, P, Q, S, PF).
• Tracking of minimum and maximum values.
• Tracking of the unbalance level.
• Raise an alarm if a threshold is exceeded.

Check the power quality
• Monitor the level of harmonic pollution.
• Detection of voltage dips and interruptions.
• Detection of voltage swells.
• Raise an alarm if a threshold is exceeded.

Manage the loads
• Record operating hours.
• Monitor load status and number of operations.
• Predictive power demand calculation and load shedding.
• Raise an alarm if a threshold is exceeded.

Communication

Choose the **communication protocol**

BACnet

Modbus   **PROFIBUS**®

Or push **your data to the cloud**

IOT ready   **FTP**

Modularity

Choose an **all-in-one product**

Or choose an **upgradable solution with modules**

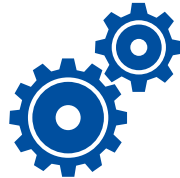DIRIS 992 A GB

DIRIS *A-40*

The reference reinvented

The simplest, quickest and most efficient implementation

Simple integration

The three current sensor technologies, solid-core, split-core and flexible (TE, TF & TR/iTR) allow to implement a monitoring solution on new and existing installations.

Assisted configuration

The configuration wizard guides the user step by step, detects and corrects configuration errors cutting the commissioning time in half and guaranteeing a reliable monitoring system.

Connected to the Cloud

The range comprises IoT-ready connected products that can automatically export data for remote processing, without any limits on time and storage.
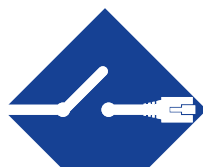

COUV 513 A

Discover the future of measurement

PreciSense

Be guaranteed of the accuracy of your measurements
• For the global measurement chain.
• For reliable measurements.
• For relevant corrective actions.

VirtualMonitor

Access the monitoring of your protective devices*
• On your entire electrical installation.
• Remotely and in real-time.
• Without additional hardware or wiring.

AutoCorrect

Be guaranteed your measurement system is working correctly*
• Automatic wiring control.
• Correction of errors.
• Feature available off-load.

available with DIRIS A-40 and iTR smart sensors.

Remote monitoring of your electrical installation

WEBVIEW-S solution embedded in the DIRIS A-40

Metering

- Measurement of active, reactive and apparent energies.
- Historical record of measurements.
- Graphical display on a monthly, weekly, daily or hourly basis.
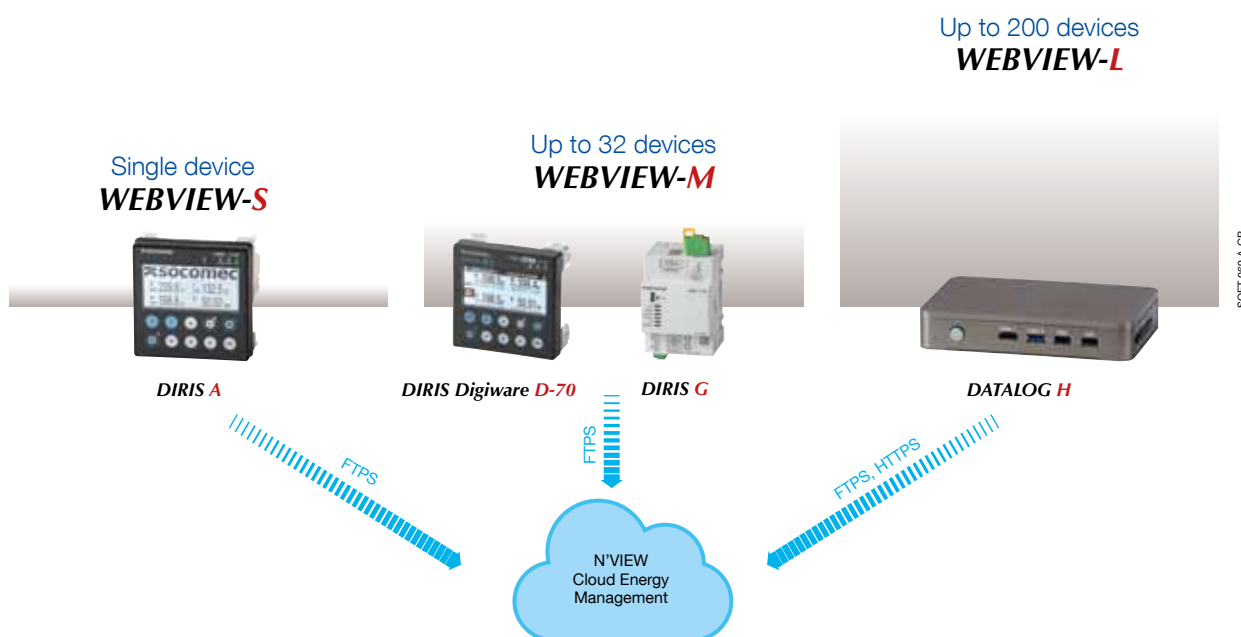- Automatic export of data via FTPS in CSV format.

Alarming

- Display of alarms.
- History of alarms.

Monitoring

- Real-time measurement of electrical values.
- View data as graphs or tables.
- Power quality analysis of the utility supply and of loads.

A range of IoT-ready connected products

Single device
WEBVIEW-S

DIRIS A

Up to 32 devices
WEBVIEW-M

DIRIS Digiware D-70   *DIRIS G*

Up to 200 devices
WEBVIEW-L

DATALOG H

FTPS

FTPS

FTPS, HTTPS

N'VIEW
Cloud Energy
Management

Selection guide

Functions		DIRIS A-10	DIRIS A-14 DIN
General characteristics	Remote display		
	Number of loads	1	1
	Mounting	DIN	DIN or 96*96
	Power supply	AC	AC
	All In One	•	•
	Optional modules		
	Ethernet (Modbus TCP / Bacnet IP)	o	o
	RS485 (Modbus / Bacnet MSTP)	• / -	• / -
	Profibus DPV1		
	Webserver / File export	o / o	o / o
	Max. number of inputs (digital / analogue)	1 / -	
	Max. number of outputs (digital / analogue)	1 / -	
Manage energy consumptions	4-quadrant energy metering	•	•
	Load curves (local memory)	o	•
	Rebilling of energy (MID approved)		•
	Multi-tariff management	2	4
Monitor the electrical installation	Instantaneous, average, min and max values	•	•
	Voltage unbalance measurement		
	Neutral current (measured / calculated)	- / •	- / •
Check the power quality	Harmonic analysis (THD / Individual)	• / -	• / -
	Dip and swell detection		
	Overcurrent detection		
Manage the loads	Operating hours	•	
	Number of operations (info / alarm)		
	Protective device monitoring (on / off / tripped)	•	
	Predictive power analysis and load shedding		

•: integrated in the product.   o: optional via DIRIS-G.

High-performance smart sensors

Smart sensors

- Current smart sensors with additional functionality.
- Automatic rating configuration.
- Safe disconnection on-load.
- Fast connection by RJ12 and identification of cables by colour coding.

Compact

- Uniquely compact on the market
- Linear assembly.
- Staggered assembly.
- Match the pitch of protective devices.

PreciSense

Guaranteed accuracy in accordance with the IEC 61557-12 standard: class 0.5 for the global measurement chain from 2 to 120 % of In.

TE solid-core smart 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

DIRIS T 002 A

DIRIS A-14 96 x 96	DIRIS A-20	DIRIS A-30	DIRIS B-10	DIRIS B-30	DIRIS A-40
CURRENT TRANSFORMERS			**SMART SENSORS**		
			•	•	
1	1	1	1 to 4	1 to 4	1
DIN or 96*96	96*96	96*96	DIN	DIN	96*96
AC	AC	AC/DC	AC	AC	AC
•					•
	•	•	•	•	
o	o	•	o	o	•
•/-	•/-	•/-	•/•	•/•	•/•
		•	o	o	•
o/o	o/o	o/o	o/o	o/o	•/•
	3/-	2/2	2/2		3/-
	1/-	2/2	2/2		2/-
•	•	•	•	•	•
•	o	o	o	•	•
•					
4			8	8	4
•	•	•	•	•	•
		•			
-/•	-/•	-/•	•/•	•/•	-/•
•/-	•/-	•/•	•/-	•/•	•/•
				•	•
				•	•
	•	•	•	•	•
	•/-	•/-	•/-	•/•	•/•
	•	•	•	•	•
		•		•	•

TORE 074 A

TR/iTR split-core smart 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

DIRIS T 015 A

TF flexible smart sensors	Rated currents (A)						Real range covered (A)	Aperture (mm)
	150	500	600	1600	2000	6000		
TF-300				◄──────►			32 … 7200	Ø 300
TF-120			◄──────►				10 … 2400	Ø 120
TF-55	◄──────►						3 … 720	Ø 55

Socomec: our innovations supporting your energy performance

1 independent manufacturer

3,200 employees worldwide

10 % of sales revenue dedicated to R&D

400 experts dedicated to service provision

Your power management expert

POWER SWITCHING

POWER MONITORING

POWER CONVERSION

EXPERT SERVICES

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets

- Measurement of electrical parameters
- Energy management

- Energy quality
- Energy availability
- Energy storage

- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

A worldwide presence

8 production sites
- France (x3)
- Italy
- Tunisia
- India
- China (x2)

27 subsidiaries
- Australia • Belgium • China • France
- Germany • India • Italy • Netherlands
- Poland • Romania • Singapore
- Slovenia • Spain • Switzerland • Thailand
- Tunisia • Turkey • UK • USA

80 countries
where our brand is distributed

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