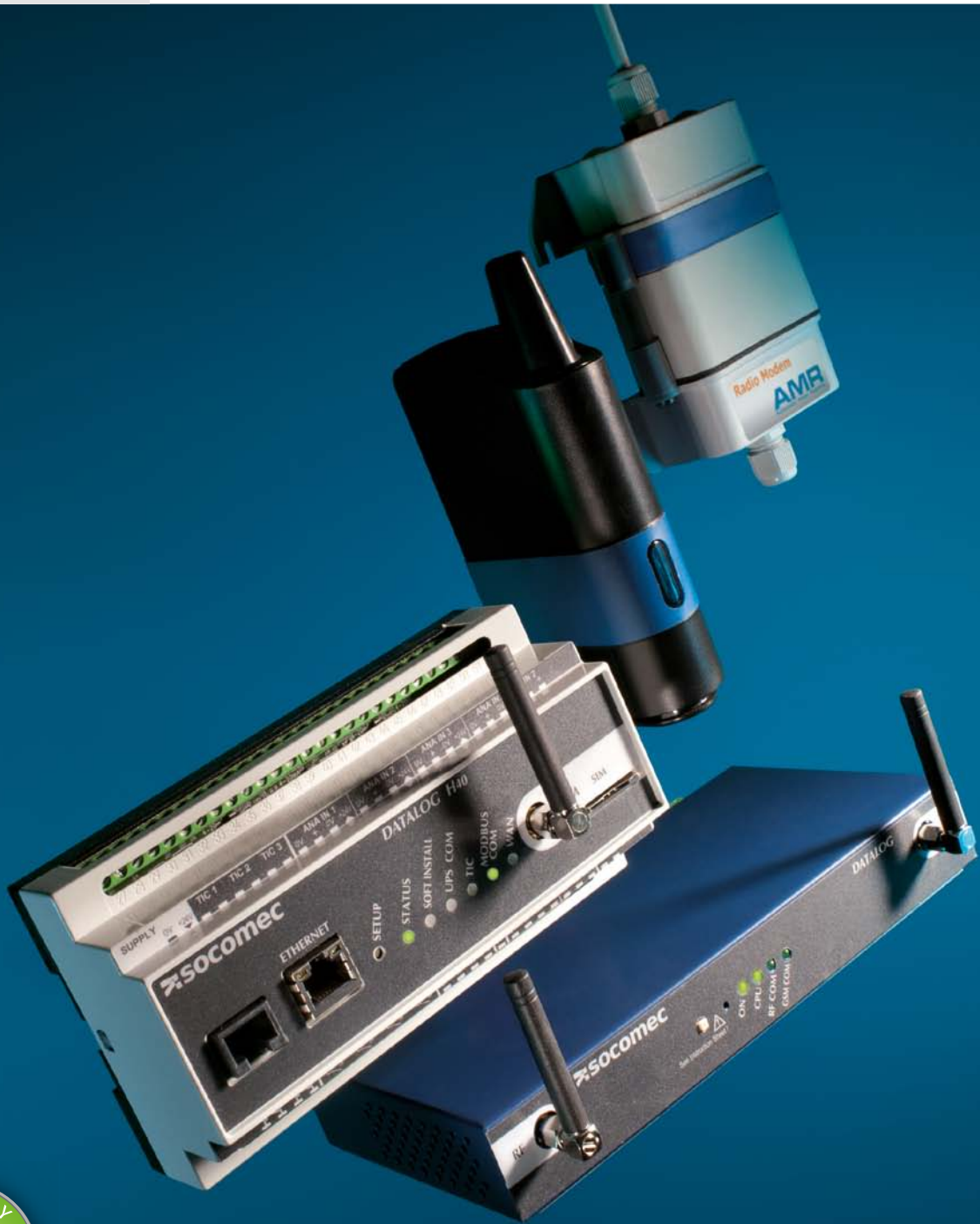


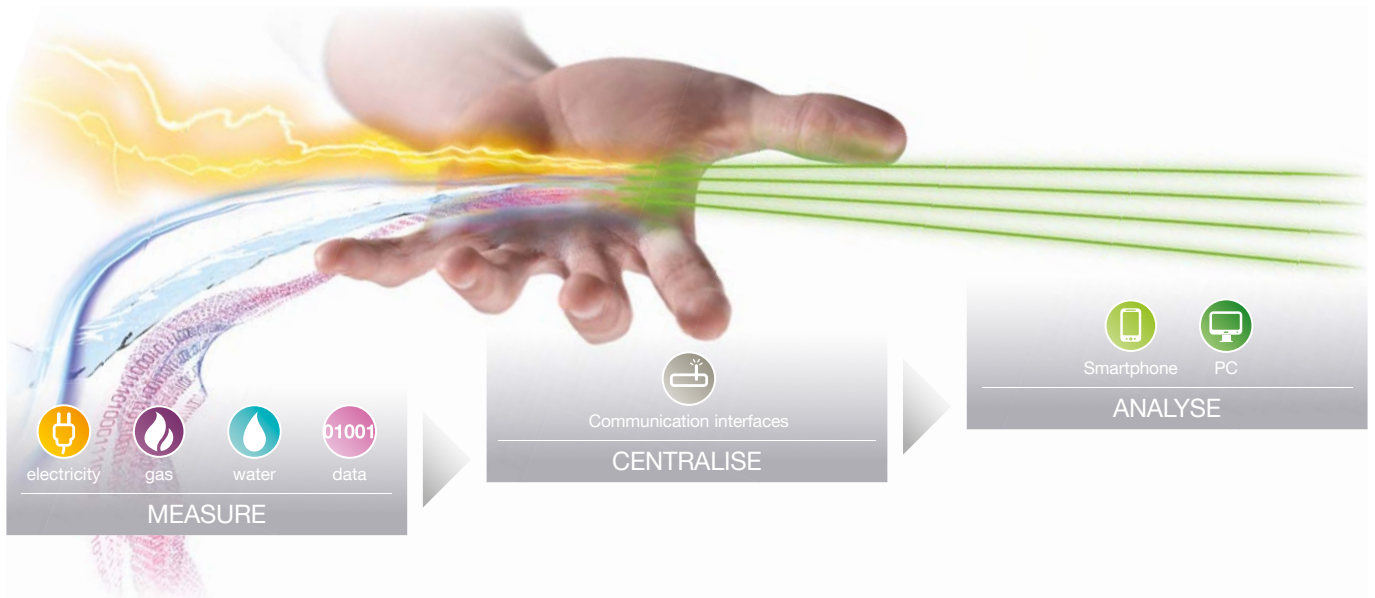
Dataloggers and wireless communication interfaces

For collecting & managing your energy data



Collect and control your energy data

Your energy management system requires data to be collected from multiple meters (electrical, gas, water...) that can be located in different buildings or even on different sites.



Adapt to the infrastructure of your buildings

Whatever the infrastructure constraints or the distances between buildings, a SOCOMECEC solution will meet your requirements. **Multi-fluid meters**, whether isolated or otherwise, **can communicate** with the local or remote information system.

Create a reliable energy data network

Socomec solutions enables you to create a dedicated **energy data gathering network**. The different communication interfaces (cable/wireless) and the dataloggers help **prevent connectivity problems**.

Centralise data from several sites

Your energy management system is based on flexible solutions. From collection to your energy management system, your **single or multi-site data is concentrated and consolidated** using varied communication architecture.

SOCOMECEC - your best asset

European industrial Group

- Created in 1922.
- Over 3,000 employees.
- Present on five continents.

A culture of independence

- Family shareholding.
- Full control of the decision-making process.
- Respect for human values.

The spirit of innovation

- Almost 10% of turnover is reinvested in R&D.

A flexible manufacturing structure

- Competitive production sites.
- Lean Management.
- Guaranteed lead times, quality and a more competitive offering.

The vision of a specialist

- Expertise in technological modules.
- Customized adaptations.

The focus on service

- Advice, interventions, training.
- Teams located across the globe.



Dataloggers and wireless communication interfaces

Key elements in your network to consolidate and make your energy data available

SOCOMEc offers a range of wireless radio interface modems and dataloggers to create a scalable communication architecture. These solutions are compatible with SOCOMEc instrumentation and energy management software, as well as those available from other manufacturers. Rapid product setup and back-up time, along with automated data gathering, means that SOCOMEc solutions meet all of your requirements.



DATALOG H40.



DATALOG H60.



Radio modem ARF868.



Radio Wireless M-Bus modem.

Four key applications: the know-how of a specialist



Ensuring the availability of high-quality power for critical applications.



Managing power and protecting individuals and property.



Improving building and facility energy efficiency.



Guaranteeing the safety and durability of photovoltaic (PV) facilities.

Key benefits of the solution

Automatically read and collect your multi-fluid energy data

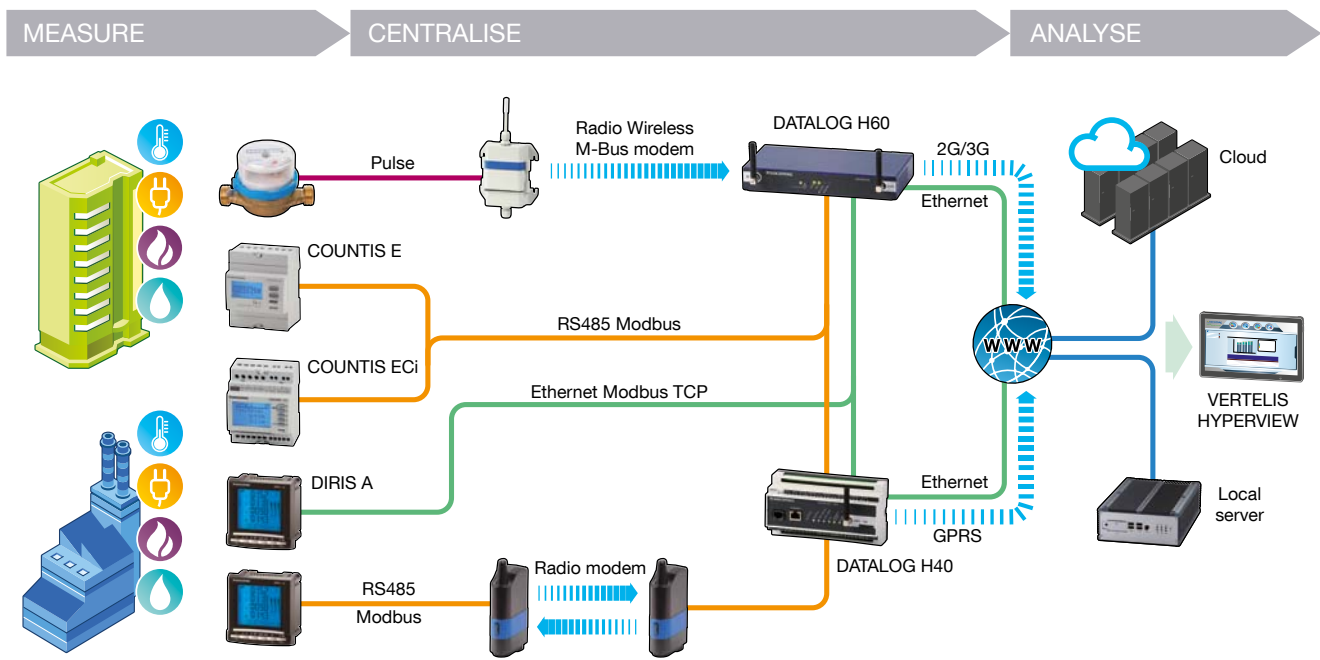
Your data can be gathered via different wired links (Ethernet, RS485, Inputs/Outputs) or wirelessly (radio). All data is remotely read automatically and autonomously by dataloggers with configurable polling.

Centralise your multi-site data

Single or multi-site data is consolidated and logged. It is then transmitted securely to the energy management software application (or third party monitoring system).

Consolidate your energy data

All the data is consolidated and formatted in a suitable file (CSV, XML) then transferred (configurable interval) via a GSM or Ethernet network to a server (local or cloud solution).



The SOCOMEC global energy management solution.

A global and open solution from the sensor to the software

Collect

- COUNTIS E active and reactive energy meters.
- COUNTIS ECi multi-fluid pulse concentrators.

Measure

- DIRIS A multifunction meters.
- RETROFIT line pack containing 1 COUNTIS E or 1 DIRIS A and 3 split-core CTs adapted solutions for existing installations.
- Current transformers.

Centralise

- Radio modem ARF868.
- Radio Wireless M-Bus modem.
- DATALOG H40 and H60 dataloggers.

Analyse

- VERTELIS HYPERVIEW energy management software (EMS) hosted locally or in the Cloud.



The perfect complement

VERTELIS software solution

Manage your energy performance and achieve your energy savings objectives with VERTELIS HYPERVIEW® software, a multi-utility and scalable energy management software .

Advantages

- Decision-making analysis tool.
- Support for your corporate social responsibility policy.
- An enduring, open-ended solution.
- A well integrated and user-friendly solution.

VERTELIS HYPERVIEW® is customisable software which can be adapted to your context and objectives

- Customised data display.
- Creation of new reports and indicators.
- Interfacing with an ERP, BMS or any other system (PLCs, SCADA, DCS, etc.).



VERTELIS 0344 A GB

VERTELIS HYPERVIEW®.

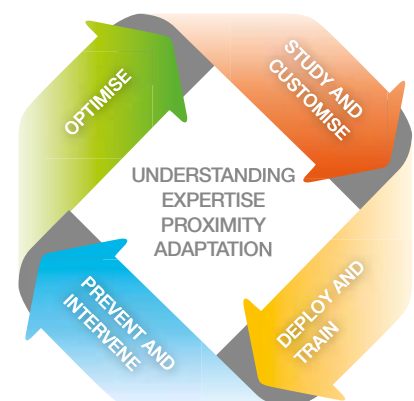
SOCOMECC services

The diverse nature of an energy efficiency solution requires varied and complex technical know-how. The multidisciplinary expertise of SOCOMECC specialists guarantees optimal operation of your system. We work together to define the services adapted to your needs and ambitions.

The experts at SOCOMECC are on hand to assist you throughout your entire energy performance project.

Our services include the following:

- site survey,
- commissioning,
- adaptation & customisation
- maintenance,
- training.



Dataloggers

Advantages of dataloggers



DATALOG H40.



DATALOG H60.



Easy installation

- Rapid DIN-rail mounting⁽¹⁾.
- Compact.
- Remote configuration via SMS.
- Configuration support (SOCOMECEC service).



Reliable transmission

- Adjustable meter polling time.
- Stored on the datalogger and sent periodically (daily, weekly, etc.).
- Compatible with Ethernet.
- Compatible with GPRS⁽¹⁾ or 2G/3G/GPRS⁽²⁾.



Flexible solution

Data collection via different connections:

- Modbus on RS232, RS485 port or Ethernet,
- M-Bus,
- Customer Remote Reporting inputs (TIC),
- analogue inputs,
- pulse inputs,
- Radio Wireless M-Bus receiver.

(1) H40 only. (2) H60 only.

Selection Guide

	DATALOG H40	DATALOG H60
INPUT / OUTPUT INTERFACE		
Inputs	4 digital inputs and 2 pulse inputs 4 analogue inputs (0-10 V, 4-20 mA)	3 digital or pulse inputs
Output	2 digital outputs (relay)	1 digital output (relay)
TIC (Customer Remote Reporting only if site is located in France)	3 inputs	-
SERIAL INTERFACES		
RS485	2 ports (1 Modbus, 1 Modbus-inverter)	1 port (Modbus)
RS232	1 port (Modbus)	1 port (Modbus or M-Bus)
RADIO INTERFACE		
Wireless M-Bus	-	868.3 - 868.95 MHz
NETWORK INTERFACE		
Ethernet	10/100 Mb	10/100 Mb
GSM/GPRS	850/900/1800/1900 MHz	850/900/1800/1900 MHz
3G	-	900/2100 MHz
GENERAL CHARACTERISTICS		
Power supply	+12 V or +24 V DC	+12 V or +24 V DC
Dimensions W x H x D	DIN-rail 157 x 86 x 59 mm	200 x 120 x 35 mm
Operating temperature	-5 °C to +50 °C	-20 °C to +70 °C
Storage temperature range	-20 °C to +85 °C	-20 °C to +85 °C

DATALOG H40

- Modbus on RS232 or RS485 or Ethernet port (selected via software configuration).
- Data formatted in .CSV.
- Configuration Webserver.

DATALOG H60

- Modbus on RS485 or Ethernet port (selected via software configuration).
- Data formatted in .XML.
- Configuration Webserver.

Wireless communication interfaces

Advantages of the radio Wireless M-Bus modem



Back-up time

- Up to 12 years of battery operation.



Easy to install

- Factory pre-setting.
- Rapid installation.
- Robust IP65.



Long range

- Up to 1 km. Option of increasing the range by installing repeaters.



2 pulse inputs

- Two meters can be linked to a single transmitter.
- Compatible with all water and gas meters.

Advantages of the radio modem ARF868



Sensitivity Transmission/ reception quality

- Power 25 mW or 500 mW at 868 MHz.
- Open frequencies on European bands (863 - 870 MHz) or subject to licence (410 - 470 MHz).



Easy to install

- Rapid installation.
- Simple configuration and operation via intuitive software.
- The product can be configured by the software as a transmitter, receiver or repeater.



Long range

- From 1 to 20 km.



Several types of communication

- Serial Port RS232, RS485 or USB.

Selection Guide

	MODEM ARF868 (Transmitter / Repeater / Receiver models)	TRANSMITTER MODEM Wireless M-Bus Water / Gas	TRANSMITTER MODEM Wireless M-Bus (Temperature)	REPEATER MODEM Wireless M-Bus	RECEIVER MODEM Wireless M-Bus
Range	Up to 1/4/7/20 km depending on model	Up to 1000 m	Up to 1000 m	Up to 1000 m	
Radio frequencies	863-870 MHz	863-870 MHz	863-870 MHz	863-870 MHz	863-870 MHz
INTERFACES					
Inputs	-	2 pulse inputs	2 temperature inputs : - 1 pre-fitted input - 1 free input	-	-
Communication	RS232 - RS485 - USB (optional)	-	-	-	RS232 - RS485 - USB
Alerts	-	Leak detection - Fraud detection - End of battery life	-	-	-
Memory	-	Index buffering (consumption log)	-	-	-
Compatibility	-	Sappel Izar, Itron Cyble, Itron Gallus 2000, Elster BK	-	-	-
GENERAL CHARACTERISTICS					
Dimensions W x H x D	135 x 75 x 35 mm	210 x 103,1 x 37,2 mm	210 x 103,1 x 37,2 mm	210 x 103,1 x 37,2 mm	210 x 103,1 x 37,2 mm
Operating temperature	-30 °C to +70 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Power supply	4.5 to 36 V	Battery Li-SOCI2 3.6 V. Guaranteed service life up to 12 years	Battery Li-SOCI2 3.6 V. Guaranteed service life up to 12 years	3.6 V. Power supply included, model with battery on request	4.5 to 36 VDC
Protection rating	IP53, IP67 (optional)	IP65	IP53	IP65	IP65
Standards	EN300-220 V2010/EN301-489/EN60950				

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