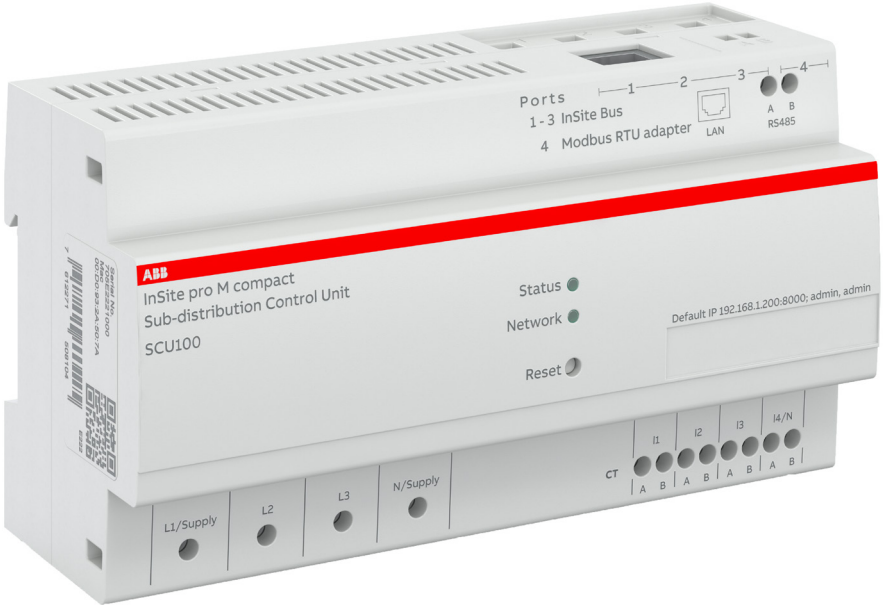
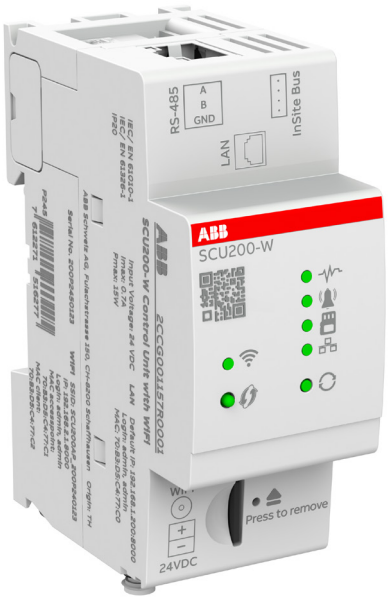




CATALOG

InSite energy management system

Optimize energy flows, easily.

- Scalable solution for sub and final distribution – from large to small commercial buildings
- Retrofit with minimal impact on the existing installation – brand-agnostic and easy to integrate
- Energy and load management
- Intuitive multi-site cloud platform

ENGINEERED
TO OUTRUN

With the ongoing energy transition, analyzing energy consumption and power quality is the first step to saving energy. Whether you're installing a new system or upgrading an existing one, our solutions provide the flexibility, scalability, and openness you need to effectively manage energy flows both on-premise and cloud-based.

Building on this foundation, our InSite energy management system delivers smart energy and load management to enhance efficiency across both sub and final distribution.

Table of contents

InSite energy management system

The InSite energy management system offers smart energy and load management to e**nhance energy efficiency in both sub and final distribution**. Its scalability caters to diverse requirements, **from basic monitoring and control to advanced load management**, ensuring all energy management needs are met effectively both **on-premise or cloud-based**.

It provides comprehensive, flexible solutions for a wide range of applications. The central control unit serves as the brain of the system, monitoring energy data via current sensors and enabling control and automation functionalities through smart accessories. This integrated approach allows for advanced energy and load management solutions that are **easily customizable for specific applications**, the number of devices to be managed, and the required functionalities.

The InSite energy management system features two control units – SCU100 and SCU200.

The **SCU100** control unit is designed for **comprehensive monitoring functions with limited control capabilities**. It can connect to a large number of current sensors, I/O modules, and smart signaling devices, making it an ideal choice for applications that require extensive monitoring functionality.

SCU200, on the other hand, is an **advanced, modular** control unit emphasizing flexibility and scalability. Like SCU100, it can connect with current sensors, I/O modules, smart accessories and Modbus devices, with the option to **expand further through plug-in expansion modules** based on specific protocols and metering requirements. The SCU200 also includes a Wi-Fi version for setups where seamless device access is crucial, minimizing wiring needs and enhancing sophistication.

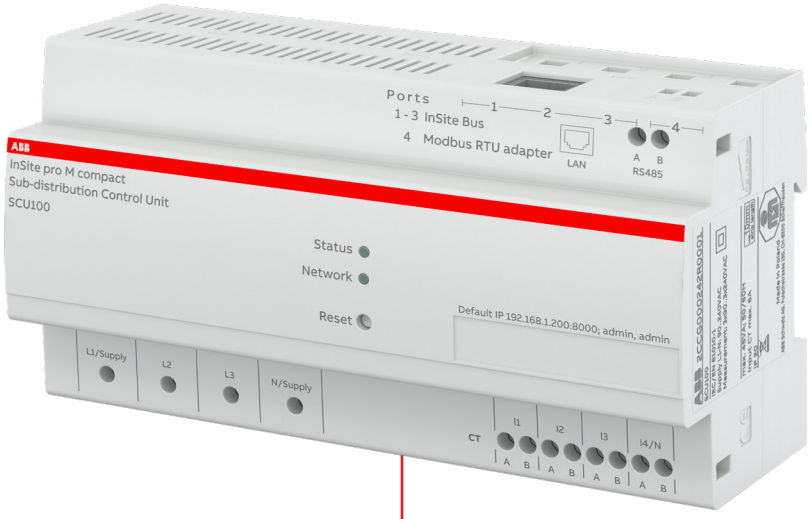
Protection devices like our digital surge protective device eOVR, or our standard protection portfolio equipped with smart aux/signaling device INS-S/H, are predefined in the SCU100 and SCU200 webservers. The eOVR can be connected directly via Modbus RTU while other devices can be connected via the smart communication or I/O module.

The system's **web server offers a customizable dashboard** for simplified data export, local control, enabling the development of advanced automation logic and comprehensive control over connected devices, including third-party components.

With our **intuitive multi-site energy management cloud platform, InSite Energy Pro**, users can benchmark performance and identify energy-saving opportunities, while real-time monitoring and automated load management enhance energy efficiency and support compliance with sustainability regulations.

Comparative Overview of SCU100 and SCU200

SCU100



Comprehensive approach

Mainly for **installations with high number of branches** to be monitored

More suitable for **integration with local 3rd party** monitoring systems

SUITABLE FEATURES

- **Higher number of loads** monitored through sensors by a single control unit
- Smart signal/auxiliary contact available
- **Higher mains current measurements** possible thanks to 5A current transformers
- Compliance with ABB's **cybersecurity regulations**

RECOMMENDED APPLICATIONS

Industry, Data Centers, Large Commercial

Technical feature	Description
Number of connectable devices (Current sensors, IO modules, smart aux/sign)through InSite flat cable	Up to 96
Smart signal/auxiliary contact connection	yes
Number of integrable Modbus devices	Up to 32 (16 RTU + 16 TCP - 4 registers per device only)
Max current measurable directly by an InSite device	Depending on the 5A current transformers connected to the control unit
Communication protocols available for data transfer upstream (BMS/SCADA/Cloud etc.,)	Modbus RTU, Modbus TCP, SNMP, FTP, SFTP, SMTP, Rest API
Wi-Fi connection	no
Power supply	AC
Expandable memory storage	no

SCU200

Modular approach

Mainly for **installations wide range of different devices** to be integrated

More suitable for **integration into cloud platforms, incl. ABB InSite Energy Pro**

SUITABLE FEATURES

- **Comprehensive monitoring** and **advanced control**, connectivity features
- **Wi-Fi connection** possible
- **Smart signal/auxiliary contact** available
- **DC power supply** possible
- Higher mains current magnitude measurement thanks to metering module (INS-E3-5).
- Direct integration with InSite Energy Pro cloud via cellular connectivity using the LTE module (INS-LTE)
- Compliance with ABB's **cybersecurity regulations**

RECOMMENDED APPLICATIONS

Residential, Telecom and unmanned substations, Small Commercial

Technical feature	Description
Number of connectable devices (Current sensors, IO modules, smart aux/sign)through InSite flat cable	Up to 32
Smart signal/auxiliary contact connection	yes
Number of integrable Modbus devices	Up to 32 (16 RTU + 16 TCP/IP)
Communication protocols available for data transfer upstream (BMS/SCADA/Cloud etc.,)	Modbus TCP, SNMP, FTP, SFTP, SMTP, Rest API
Wi-Fi connection	yes
Power supply	AC and DC
Expandable memory storage	Yes (SD card)

Control Unit
SCU100

The SCU100 is designed for simple and efficient collection and analysis of measured values and energy data in buildings, data centers, and various industrial settings.
By enhancing the transparency of energy flows, it helps improve energy efficiency and reduce costs across different branches and functional buildings.
The SCU100 supports connections with various devices, including energy meters, network analyzers, I/O modules, smart auxiliary devices, current sensors.

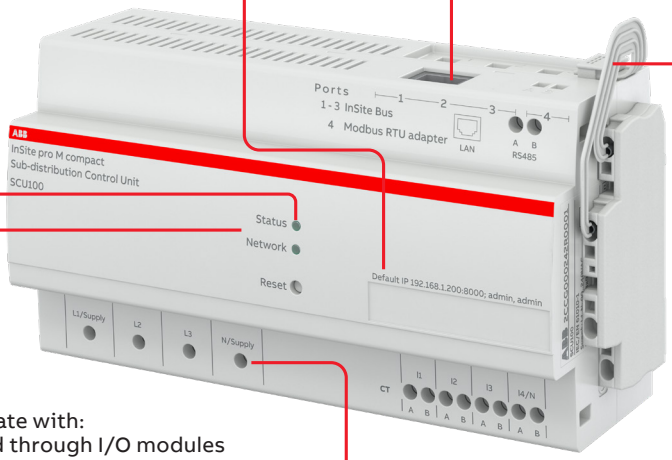
Capable of collecting data from up to 16 energy and power meters via Modbus RTU, 16 energy and power meters (limit: 4 registers for each device) via Modbus TCP and 96 current sensors and digital channels simultaneously, the SCU100 calculates energy usage and operational metrics at a single-line level, allowing for period or device comparisons.

Its built-in web server provides intuitive access to measured data, configuration settings, and system parameters without additional software.

Data can be accessed locally or exported automatically via various interfaces, integrating seamlessly into higher-level building management systems.

Single access point in the sub distribution board, data aggregator and collector from field devices

Modbus TCP/IP and RTU to communicate to supervision system, enabling remote availability of collected data



LEDs for visual understanding of correct /uncorrect installation and functioning

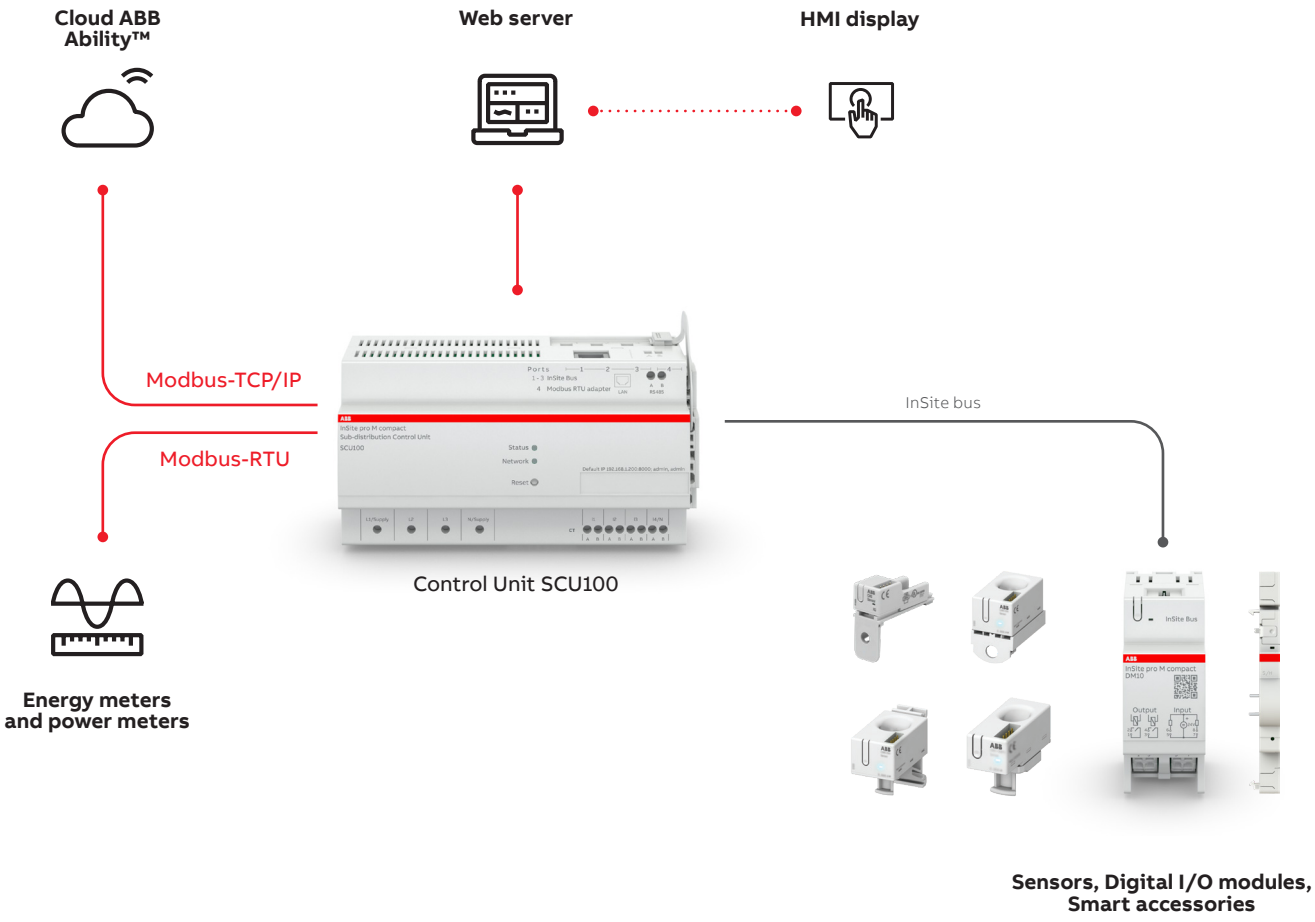
3 ports for up to 128 devices connected:

1. **Ethernet RJ45 port - Modbus TCP**: connectivity of up to 16 TCP devices of any kind (meters, breakers, EV chargers, solar, ...*4 registers each)
2. **RS485 port – Modbus RTU**: connectivity of up to 16 RTU devices of any kind (meters, breakers, EV chargers, solar, ...)
3. **InSite bus port**: connectivity of up to 96 devices, whether they are current sensors, I/O modules, or smart accessories

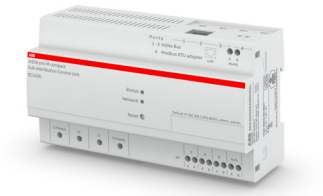
Firmware upgrade to communicate with:
- Classic accessories connected through I/O modules
- Sensors, energy and power meters in Modbus RTU
- Current sensors

Internal power supply to enable communication and correct functioning of sensors and I/O modules

System Architecture with SCU100



Technical data
SCU100

Sub distribution control unit	Technical feature	Unit	Description
	Supply voltage	[VAC]	80-277 (L1-N, +5%)
	Frequency	[Hz]	50/60
	Power input (L1-N)	[W]	5...45 depending on number of sensors and I/O modules
	Power input , current trtransformer, secondary side	[VA]	Current circuit <2 (per phase)
	Voltage measurement range	[VAC]	80-277 (L1, L2, L3-N)
	Measurement range, current transformer, secondary side	[A]	nominal: 5 max: 6
	Hramonic component	[Hz]	up to 2000
	Data rate of Modbus RTU	[Baud]	RS485 2- wire, 2400...115200
	Refresh time		1sec / 30 sec (depending on type of data)
	Data storage and export		Integrated 1-year data storage Automatic CSV data export
	Communication		LAN: Modbus TCP/IP, secured SNMP v1, v2, encrypted v3 RS485: Modbus RTU
	Connected devices		Up to 96 sensors/digital channels Up to 16 meters via Modbus RTU Up to 32 meters via Modbus TCP (limit, 4 registers per device)
	LAN	[Mbit/s]	100
	Conductor cross-section	[mm^2]	0.5...2.5
	Mounting method		35mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	161.5x87.0x64.9 (9WM)
	Oparting temperature	[°C]	-25... +60
	Stirage temperature	[°C]	-40... +85
	Standards		IEC61010-1, UL 508

Main circuit accuracy	Description
Voltage	± 1%
Current	± 1%
Harmonic component (up to 2500Hz)	± 1%
Active power	± 2%
Apparent power	± 2%
Reactive power	± 2%
Power factor	± 2%

Web server
SCU100

Insite SCU100 built-in webserver is a user-friendly, locally accessible interface requiring no cloud connection and provided at no additional cost. With a simple design, it offers a rich set of features, including widgets for an at-a-glance view of real-time values and status across all integrated devices. Users can explore interactive graphs, perform trend analysis, and benchmark consumption trends between devices to gain valuable insights.

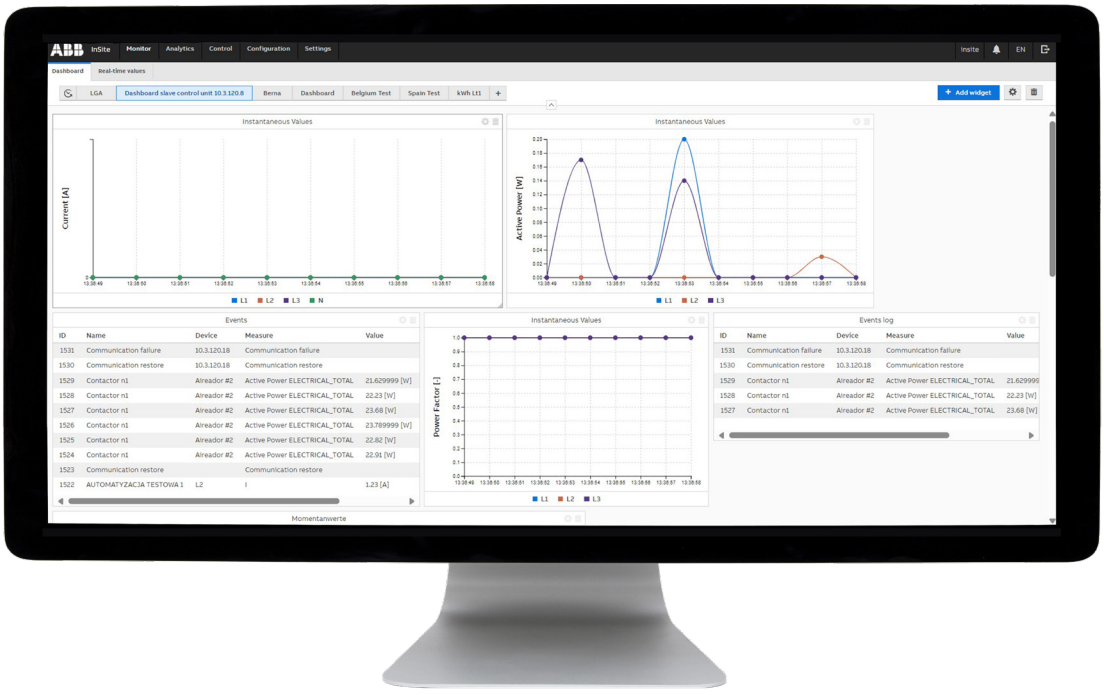
The webserver also makes it easy to adjust settings, commission new configurations, export reports, set up automations and alerts, and configure email notifications, providing a comprehensive and intuitive energy management experience.

Realtime widgets & Benchmarking

Complete historical Analysis

Automated data export

Alarms & Events

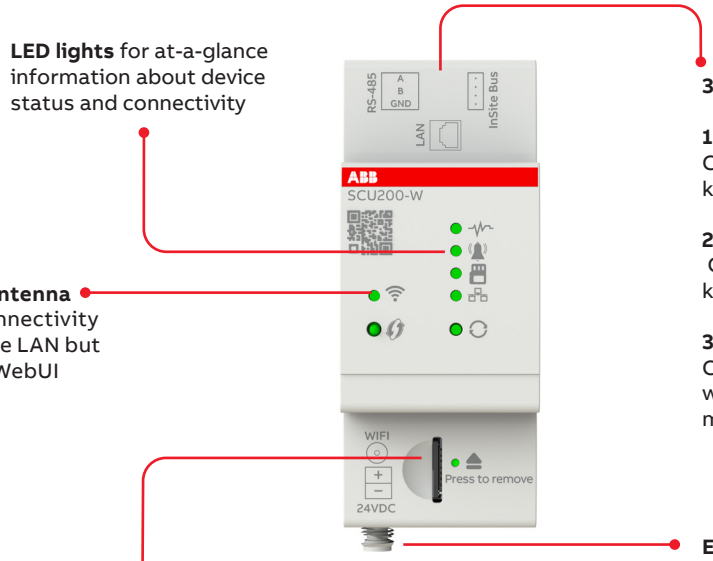


Control Unit
SCU200

SCU200 elevates smart energy and load management functionalities, offering a comprehensive solution to optimize energy usage in both sub and final distribution.

The compact control unit collects data from field devices, which can then be accessed via the InSite web server, or any third-party application.

Depending on the specific needs, expansion modules can be selected from a range of options, allowing the system to be customized in a cost- and space-efficient way.



LED lights for at-a-glance information about device status and connectivity

Embedded Wi-Fi antenna for the wireless connectivity of the system to the LAN but also to access the WebUI

Micro SD card memory slot

3 ports for up to 64 devices connected:

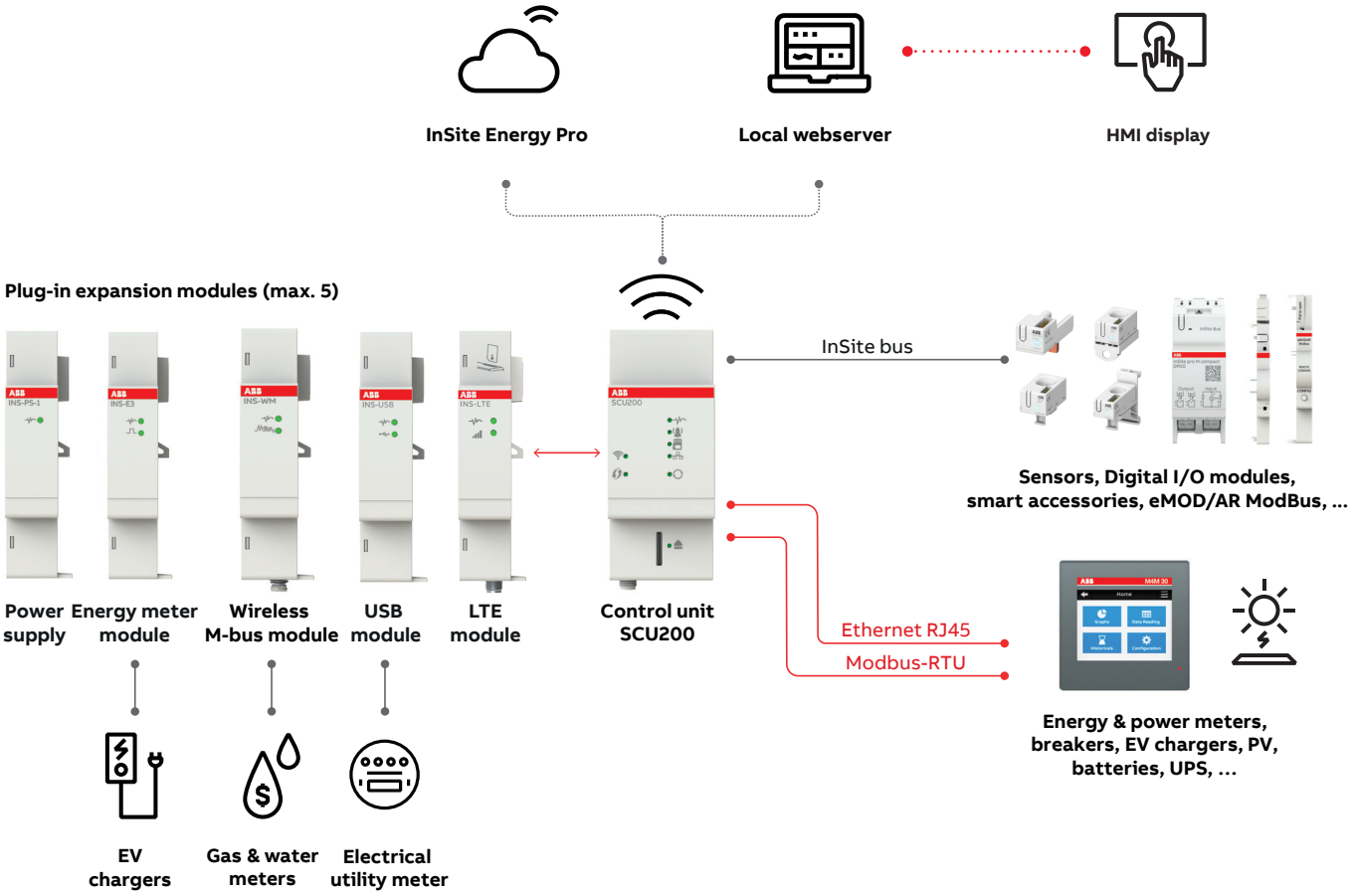
1) Ethernet RJ45 port - Modbus TCP:
Connectivity of up to 16 TCP devices of any kind (meters, breakers, EV chargers, solar, …)

2) RS485 port – Modbus RTU:
Connectivity of up to 16 RTU devices of any kind (meters, breakers, EV chargers, solar, …)

3) InSite bus port:
Connectivity of up to 32 devices, whether they are current sensors, I/O modules, or smart accessories

External antenna port

System Architecture with SCU200

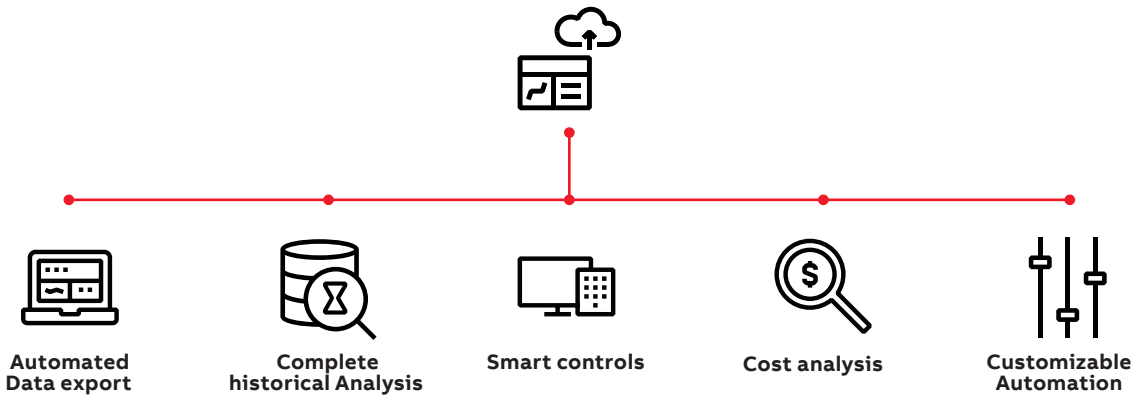


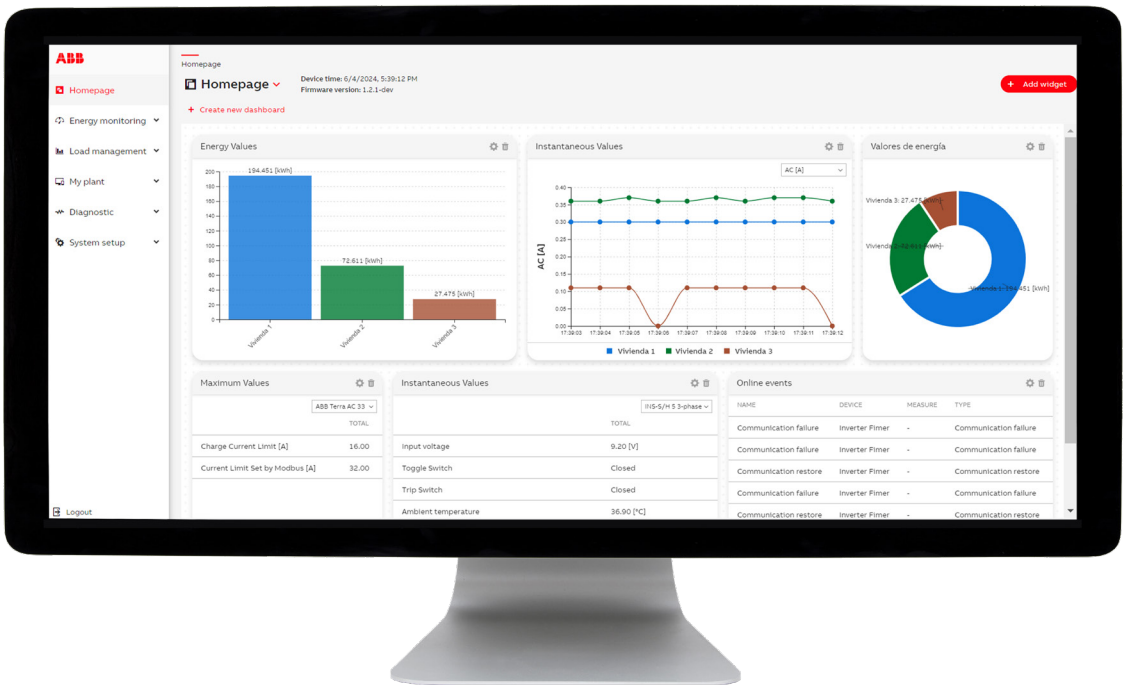
Technical data
SCU200

SCU200 / SCU200-W	Technical feature	Unit	Description
	Supply voltage	[V]	24VDC +/- 10%
	Current	[A]	Max 0.7
	Connection		InSite modular bus
	Power consumption	[W]	Max 3.6
	Refresh time		1sec / 30 sec (depending on type of data)
	Data storage and export		Integrated data storage (expandable through microSD card)
			Automatic CSV data export
	Communication protocols		Modbus TCP/IP
			Rest API
			DHCP
			HTTPS
			NTP
			SFTP/FTP
	Communication ports	[Mbit/s]	Ethernet, 10/100
			RS485 (120Ω termination default)
			WiFi 2.4 GHz IEEE 802.11 b/g/n (only on SCU200-W)
			InSite bus
	External antenna port*		Female SMA / 50Ω / 2.4 GHz
	Data rate of Modbus RTU		RS485 2- wire, 2400...115200
	External Antenna (not included)*		Male SMA / 50 Ohm / 2.4 GHz max 4.7 dBi
	Power supply 24VDC connection		
	Conductor cross section solid /flexible	[mm²]	0.2 ... 1
	AWG	[AWG]	28-17
	Strip length	[mm]	10
	RS485 port connection		
	Conductor cross section solid /flexible	[mm]	0.14 ... 1.5
	AWG solid conductor	[AWG]	28-16
	AWG flexible conductor	[AWG]	26-14
	Strip length	[mm]	8 ... 9
	Connected devices		Up to 32 current sensors/digital channels/smart accessories
			Up to 16 Modbus TCP/IP and 16 Modbus RTU devices
	Mounting method		35mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	35.8x87x64.9 (2M)
	Weight	[g]	105
	Operating temperature	[°C]	-25... +55
	Storage temperature	[°C]	-40... +85
	Operating altitude	[m]	0... 2000
	Standards		IEC61010-1
			IEC 61326-1

Web server
SCU200

Once the system is installed, it enables connection to the integrated InSite web server with automatic device recognition. Through the SCU200 local web server, real-time insights into energy consumption and power quality are provided. Users can customize widgets such as graphs, charts, and tables, for immediate visibility into consumer allocation, top consumers, and trend deviations. Additionally, the system calculates costs using a range of tariff options and enables the management of multiple contracts for comprehensive financial insight.
Consumption trends can be effortlessly tracked and analyzed over time, with data stored in intervals as small as thirty seconds. Moreover, alerts and actions can be automated based on predefined conditions.
The system facilitates local device control by providing a dedicated page for each device, featuring writable Modbus variables. Additionally, it allows control of devices from external cloud platforms or BMS systems via REST API or Modbus. This ensures efficient and optimized energy management at your fingertips, customized to meet specific requirements. Thanks to its seamless platform, integrating any third-party device is straightforward and user-friendly, making it remarkably convenient for customers.





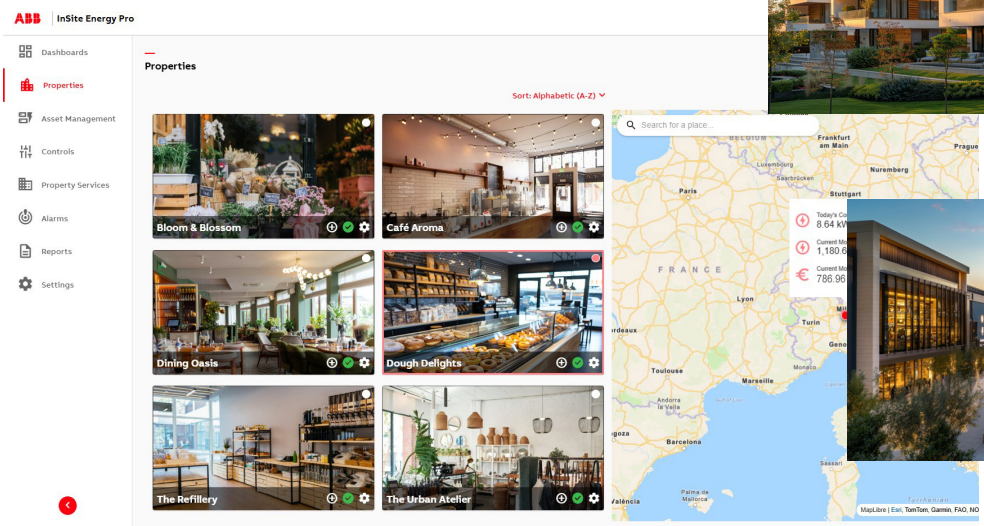
NEW energy management cloud platform
InSite Energy Pro

InSite Energy Pro is a cloud platform for intuitive, multi-site energy management that connects with the InSite system's SCU200 control unit.

SCU200 control unit operates as the main gateway that connects to the cloud and manages energy data across various devices, such as breakers, meters, and Electric Vehicle (EV) chargers.

With InSite Energy Pro, users can obtain a holistic view of their energy ecosystem, facilitating decision-making, performance optimization, and cost reduction.

Multi-dwelling units



Commercial buildings

Elevate energy efficiency, from groud to cloud.

solutions.abb/insite-energy-pro

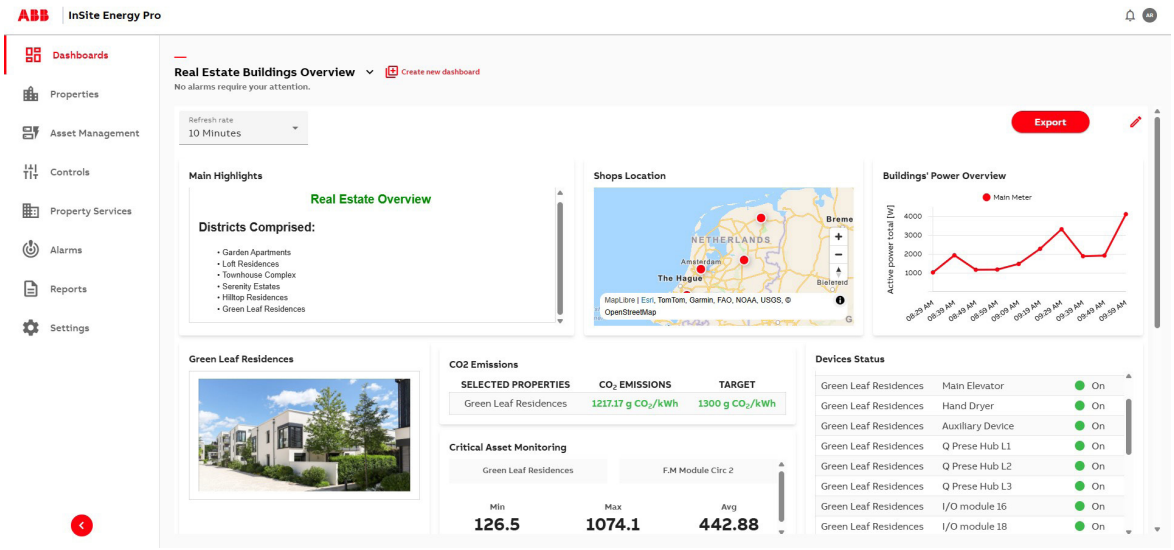
Easy implementation and retrofit

- **Reduce complexity, costs and space** with only one control unit as the main gateway
- **Easy retrofit and upgrade of existing installation** at any time, minimizing impact on building operations
- **Enable integration and connection** to other 3rd party systems, using the data from the cloud to enrich the electrical data ecosystem

Intuitive energy management

- **User-friendly interface** with multi-location view, property status indicators, and comprehensive property details
- **Customizable dashboards** with a broad range of widgets for tailored views according to each application's needs

NEW energy management cloud platform
InSite Energy Pro



- **Energy Dashboards:** Create and customize multiple energy monitoring dashboards with a broad variety of widgets.
- **Properties:** A dedicated section to manage and oversee multiple facilities at a glance and in detail.
- **Asset Management:** Keep track of all the devices connected to the system, visualizing their status and details.
- **Control:** Manual control of selected loads (e.g. ABB Terra AC)
- **Property Services:** A dedicated section to enrich your analysis through benchmarking and contracts & and tariffs configurations.
- **Alarms:** Configure your alarms to always be aware of any critical situations.
- **Reports:** Keep track of your facilities' performance with dedicated reports, facilitating communication with key stakeholders.
- **Settings:** General configuration and settings for the cloud application.

Accelerate decision-making

- **Remote monitoring** of real time energy data, KPI overview
- **Real-time notifications** and alerts to be always informed and enable proactive behavior
- **Remote control** of selected loads to quickly act in case of any critical situation
- **Benchmark analytics** allow for comparisons between different devices, groups or properties to identify areas of improvement

Reporting and transparency of energy data

- **Comprehensive reports** that aggregate different data sources to show energy usage and cost distribution across different sites
- **Makes energy data more accessible and transparent**, keeping key stakeholders up-to-date about the overall performance and KPIs
- **Supports compliance** with energy efficiency regulations (e.g. ISO 50001)

Plug-in expansion modules
for SCU200

Customize your InSite energy management system with plug-in expansion modules for your specific application needs.

Simply plug up to 5 expansion modules into the central Control Unit SCU200(W) without any tools needed. The system will automatically recognize the modules, making them visible in its local webserver and cloud platform.

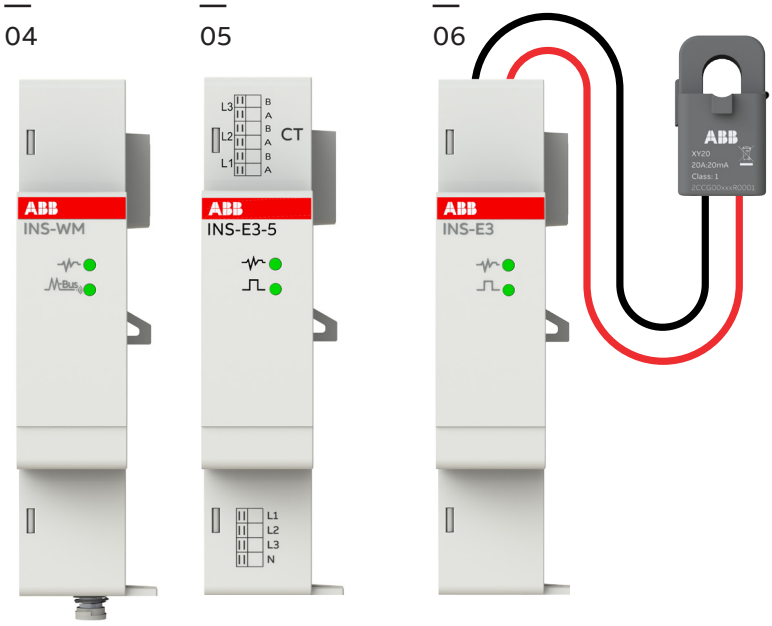
01 02 03

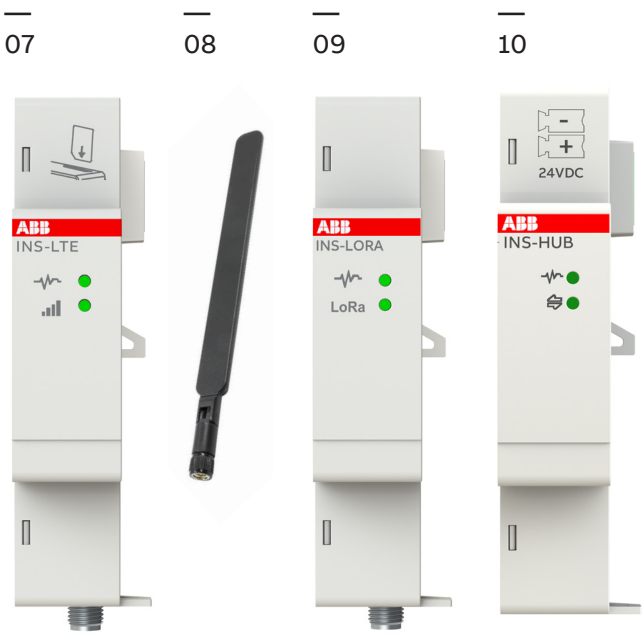
01
Control Unit SCU200(W)
Central system gateway

02
Power Supply module
AC to DC converter

03
USB module
for connection of smart meters with P1 port

Plug-in expansion modules
for SCU200





—
04
Wireless M-Bus module
for the integration of wireless Mbus meters on the field

—
05
Energy metering module
for energy measurements

—
06
Split-core Current Transformers
for INS-E3 metering module, to measure currents up to 80A

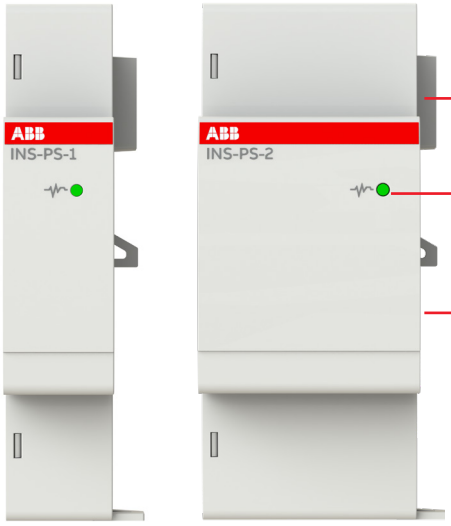
—
07
LTE connectivity module
for direct connection to the internet via mobile networks

—
08
Antenna
compatible with all InSite products (SCU200-W, INS-LTE, INS-LoRa, INS-WM)

—
09
LoRa communication module
enables LoRaWAN communication for the SCU200

—
10
Collector Hub module
for reaching up to 160 devices via the InSite flat cable

Power supply modules
INS-PS-1 and INS-PS-2



Power supply modules designed to support AC installation – available up to 10 kW or 30 kW based on the configuration

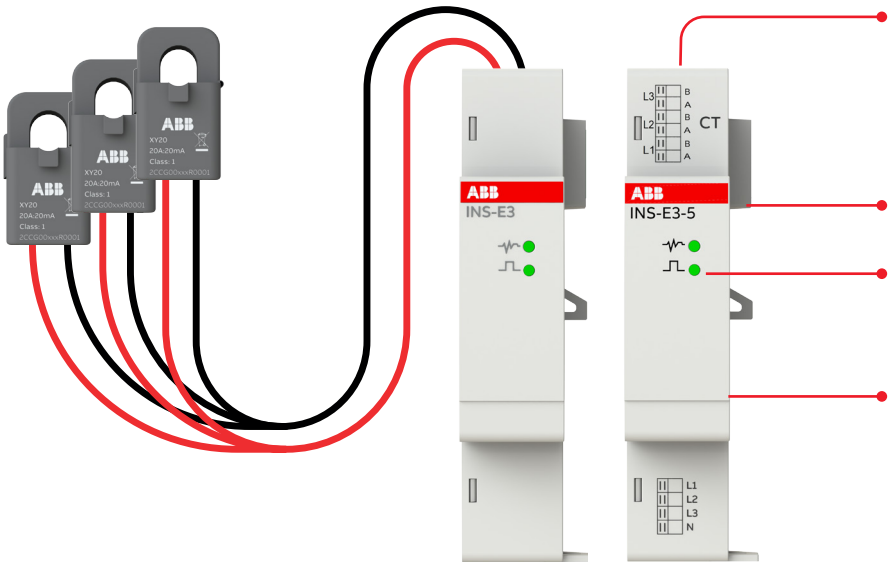
Plug-in functionality
for tool-free mounting to the control unit SCU200

Status LED for instant visual feedback

Wide range of operating voltages
for both AC and DC

Technical feature	Unit	INS-PS-1	INS-PS-2
Supply voltage	[V]	100...240 VAC +/-10% 110...350 VDC (tolerance included)	100...240 VAC +/-10% 110...350 VDC (tolerance included)
Connection		InSite modular bus	InSite modular bus
Solid conductor	[mm2]	0.14 ... 1.5 (28 ... 16 AWG)	0.14 ... 1.5 (28 ... 16 AWG)
AWG solid conductor	[AWG]	28-16	28-16
Fine-stranded conductor	[mm2]	0.14 ... 1.5 (26 ... 14 AWG)	0.14 ... 1.5 (26 ... 14 AWG)
Fine-stranded conductor; with insulated ferrule	[mm2]	0.25 ... 0.75	0.25 ... 0.75
Fine-stranded conductor; with uninsulated ferrule	[mm2]	0.25 ... 1.5	0.25 ... 1.5
Strip length	[mm]	8 ... 9 mm (0.31 ... 0.35 in)	8 ... 9 mm
Connection type		screwless	screwless
Power output	[W]	10W nominal / 15W boost	30W nominal / 45W boost
Max input Current	[mA]	180	450
Frequency		50/60Hz ± 5%	50/60Hz ± 5%
Power input (L1-N)		18W max	45W max
Conductor cross-section		1.5mm² max	1.5mm² max
Mounting method		35mm DIN rail (DIN 5022)	35mm DIN rail (DIN 5022)
Degree of protection		IP20	IP20
Dimensions	[mm]	17.5x87.0x64.9 (1WM)	35.8x87x64.9 (2M)
Impact test		IK06	IK06
Weight	[g]	77	110
Operating temperature	[°C]	- 25... + 60	- 25... + 60
Storage temperature	[°C]	- 40... + 85	- 40... + 85
Operating altitude	[m]	0... 2000	0... 2000
Standards		IEC 61010-1	IEC 61010-1
		IEC 61326-1	IEC 61326-1
Declarations		CE, UKCA	CE, UKCA

Metering modules
INS-E3 and INS-E3-5



Metering modules for enabling accurate monitoring of mains supply or high-demand loads – ideal for applications below 80 A (INS-E3) or with higher current via external CTs (INS-E3-5)

Power directly InSite Plug-in Bus

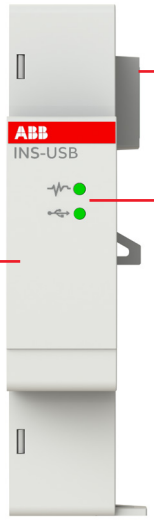
Status LED for instant visual feedback

Function as either single-phase or three-phase energy meter

Technical feature	Unit	INS-E3	INS-E3-5
Supply voltage	[VDC]	24V supplied by the	24V supplied by the
Connection		InSite modular bus	InSite modular bus
Power consumption	[W]	0.7	0.7
Over Voltage category		II	II
Network Type		- 3 phase 4 wires; 3 CT	- 3 phase 4 wires; 3 CT
		- 3 phase 3 wires; 3 CT	- 3 phase 3 wires; 3 CT
		- 3 phase 4 wires; 2 CT	- 3 phase 4 wires; 2 CT
		- 1 phase 2 wires; 1 CT	- 1 phase 2 wires; 1 CT
Voltage input connection		Screwless terminal block	Screwless terminal block
"Voltage specified measurement range (full accuracy)"	[VAC]	80-240 (L1,L2, L3-N)	80-240 (L1,L2, L3-N)
Voltage limit range of operation	[VAC]	0 - 277	0 - 277
Frequency	[Hz]	50 / 60	50 / 60
Data availability		SCU200 webserver, Modbus TCP, Rest API, Reports via SMTP / FTP	SCU200 webserver, Modbus TCP, Rest API, Reports via SMTP / FTP
Current transformers			
Current transformers		CTS-20/50/80	Any CT
Current transformer supported on Primary side	[A]	up to 80	No upper limit
Current transformer supported on Secondary side	[A]	nom.: 0.004	nom: 5
Accuracy - INS-E3-5 (@25 °C, PF=1)		Active Energy 1%	Active Energy 1%
Accuracy - CTS-1-XX		Class 1 (EN 61869-2)	
Conductor cross-section			
Solid/fine-stranded conductor	[mm2]	0.14…1.5	0.14…1.5
AWG solid conductor	[AWG]	28-16	28-16
AWG fine-stranded conductor	[AWG]	26-14	26-14
Fine-stranded conductor with insulated ferrule	[mm2]	0.25 … 0.75	0.25 … 0.75
Fine-stranded conductor with uninsulated ferrule	[mm2]	0.25 … 1.5	0.25 … 1.5
Strip length	[mm]	8…9	8…9
CTS cable length	[m]	0.5	0.5
Mounting method		35mm DIN rail (DIN 5022)	35mm DIN rail (DIN 5022)
Dimensions	[mm]	17.5x87.0x64.9 (1M)	17.5x87.0x64.9 (1M)
Weight	[g]	52	52
Relative Humidity		0.95	0.95
Over voltage Category		II	II
IK code		IK06	IK06
Pollution degree		2	2
Operating temperature	[°C]	-25... +60	-25... +60
Storage temperature	[°C]	-40... +85	-40... +85
Standards		EN 61010-1 / IEC 61010-1, EN IEC 61326-1	EN 61010-1 / IEC 61010-1, EN IEC 61326-1
Operating altitude	[m]	0...2000	0...2000
Standards		IEC61010-1, IEC 61326-1	IEC61010-1, IEC 61326-1

USB Communication module
INS-USB

100mA USB port for the connection of P1 smart meters (energy, gas, water)



Plug-in functionality for tool-free mounting to the control unit SCU200

Status LED for instant visual feedback

USB modules designed to read the real-time data from utility meters (e.g. Linky) and **P1 ports** (selected non-encrypted models with DSMR - 5.0 version)

500mA USB port future additional integrations requiring USB connection

INS-USB	Technical feature	Unit	Description
	Supply voltage	[VDC]	Supplied by the InSite modular bus
	Connection		InSite modular bus
	Power consumption	[W]	0.4 (standby)
	Communication protocol		USB 1.1 (max speed 12Mbps)
	Data availability		SCU200 webserver, Rest API, Reports via SMTP / FTP
	Power capabilities		100mA @5V (USB P1 port) 500mA @5V (bottom USB port)
	Mounting method		35mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	17.5x87x64.9 (1M)
	Weight	[g]	46
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Operating altitude	[m]	0... 2000
	Standards		IEC61010-1
			IEC 61326-1

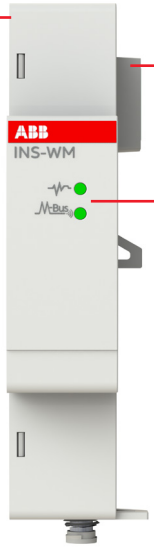
Wireless M-bus Communication module
INS-WM

Integrate up to 32 wireless M-bus meters into SCU200 through a wired M-bus module each

Plug-in functionality for tool-free mounting to the control unit SCU200

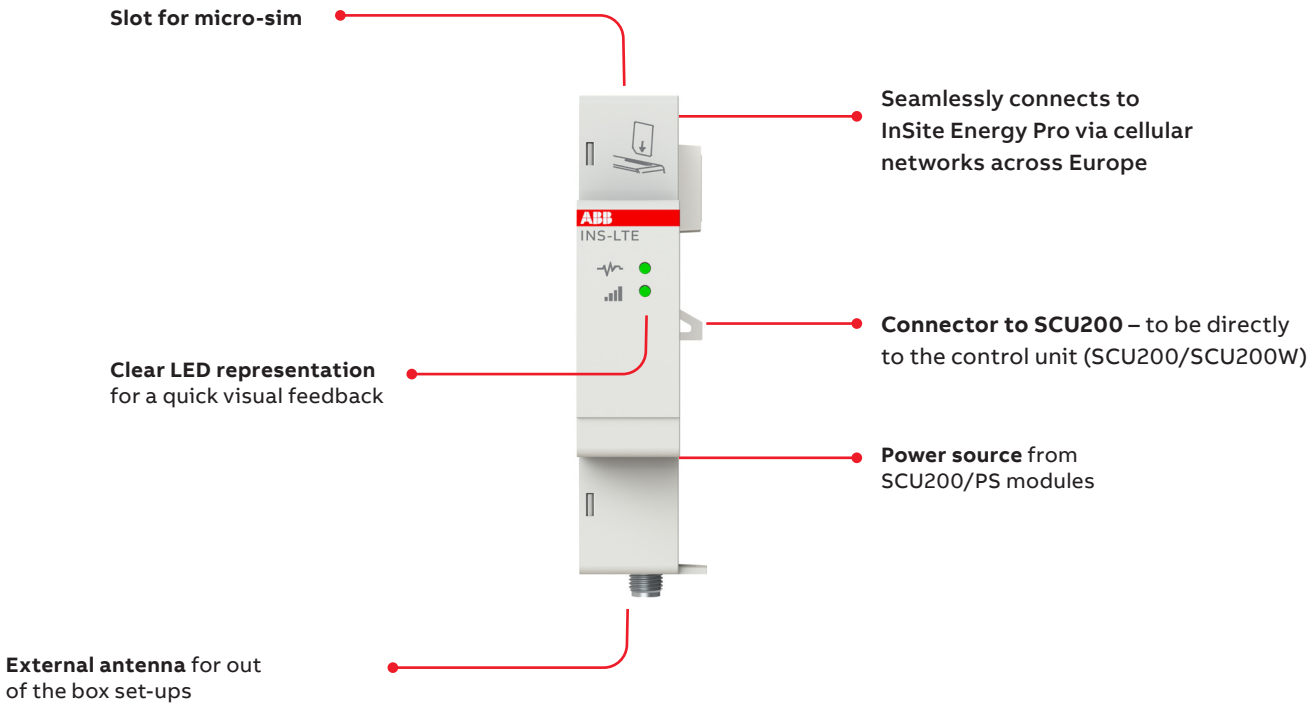
Status LED for instant visual feedback

Wireless M-bus gateway provided with connection for external antenna



INS-WM	Technical feature	Unit	Description
	Supply voltage	[VDC]	Supplied by the InSite modular bus
	Connection		InSite modular bus
	Power consumption	[W]	0.5
	Communication protocol		Wireless M-bus
	Data availability		SCU200 webserver, Rest API, Reports via SMTP / FTP
	Number of meters that can be read unit		Up to 16 meters on filed
	RF mode		C1 and T1
	Frequency band	[MHz]	868.95
	Max RF output power		RF mode – receiver only
	Max RF input power	[dBm]	10
	External antenna (not included)		male SMA / 50 Ohm / 868.95MHz
	Mounting method		35mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	17.5x87x64.9 (1M)
	Weight	[g]	48.54
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Operating altitude	[m]	0... 2000
	Standards		IEC61010-1
			IEC 61326-1

NEW LTE Connectivity module
INS-LTE



INS-LTE	Technical feature	Unit	Description
	Supply voltage	[VDC]	24 VDC Supplied by the InSite modular bus
	Connection		InSite modular bus
	Power consumption	[W]	0.24 (idle mode)
	Communication protocol		LTE/4G
	Sim size		Micro SIM (3FF)
	Frequency band		LTE-FDD B1/B3/B5/B7/B8/B20
	Max RF output power	[dBm]	23
	External antenna specs (no internal antenna available)		Male SMA / 50 Ohm 0.8 - 2.6 GHz
	Market region		EU
	Antenna extension cable	[m]	< 3
	Mounting method		35 mm DIN-rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	17.5x87x64.9 (1M)
	Weight	[g]	~70
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Operating altitude	[m]	0... 2000
	Standards		EN 61010-1 / IEC 61010-1
			EN IEC 61326-1
			ETSI EN 300-489-52
			ETSI EN 301-908-1
	ABB Antenna		2CMA269075R1000

For indoor use only. For European countries only.

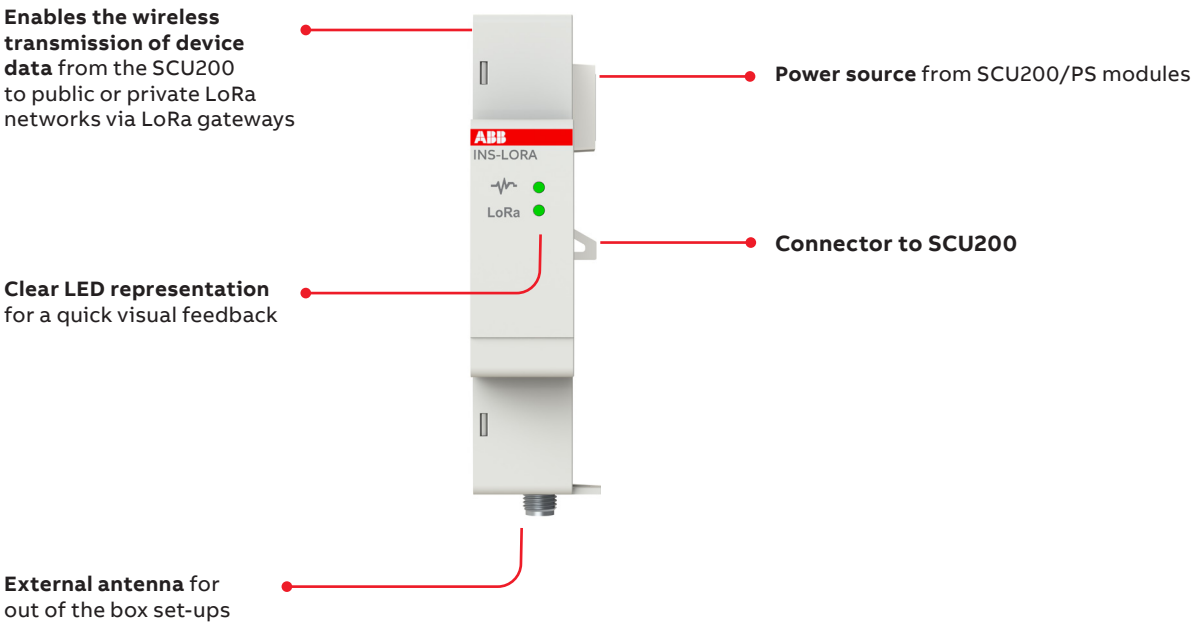
NEW Antenna for the InSite system
INS-ATE

Tested antenna for all wireless connections of the InSite range (SCU200-W, INS-LORA, INS-LTE & INS-WM modules)

Possibility to extend the antenna via an external adaptor up to 3 meters

INS-ATE	Technical feature	Unit	Description
	Category		RF and Wireless RF Antennas
	Compatibility		InSite wireless system: SCU200 W, INS-LORA, INS-LTE, INS-WM
	Antenna type		Whip, straight
	Communication protocol		LTE
	Part Status		Active
	RF Family/Standard		Cellular
	Frequency Group		Wide Band
	Frequency (Center/Band)	[MHz, GHz]	829MHz, 1.228GHz, 1.505GHz, 1.762GHz, 1.94GHz, 2.43GHz, 3.65GHz, 4.5GHz, 5.5GHz
	Frequency Range	[MHz, GHz]	698MHz ~ 960MHz, 824MHz ~ 1.28GHz, 1.176GHz ~ 1.61GHz, 1.4GHz ~ 2.17GHz, 1.71GHz ~ 2.69GHz, 2.17GHz ~ 2.7GHz, 3.3GHz ~ 4GHz, 4GHz ~ 5GHz, 5GHz ~ 6GHz
	Number of Bands		9
	VSWR		3
	Gain	[dBi]	1.7dBi, 1.9dBi, 3dBi, 2.6dBi
	Termination		SMA Male
	Mounting method		Connector Mount
	Ingress protection		IP55
	Height (Max)	['', mm]	7.480" (190.00 mm)

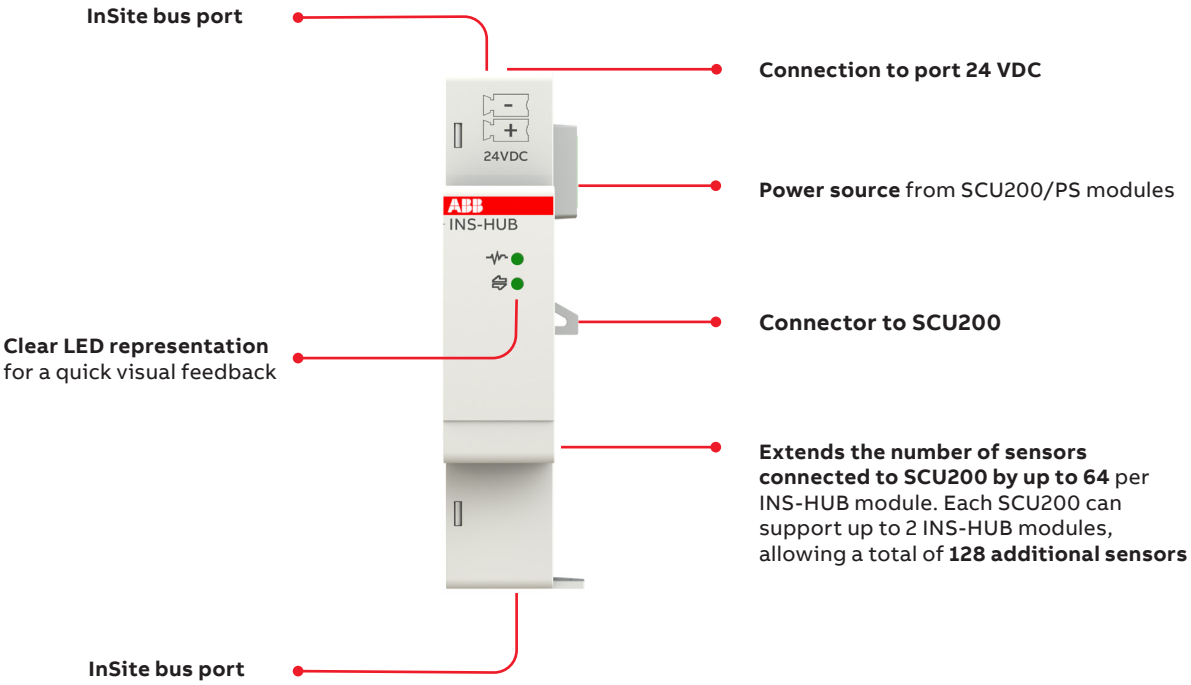
NEW LoRa Communication module
INS-LORA



INS-LORA	Technical feature	Unit	Description
	Supply voltage	[VDC]	24 VDC Supplied by the InSite modular bus
	Connection		InSite modular bus
	Power consumption	[W]	0.5
	Communication protocol		LoRa WAN
	Frequency band	[MHz]	868
	Market region		EU
	RF output power	[dBm]	+ 22 (max.)
	Embedded internal antenna	[dBi]	-0.4 peak gain
	External antena (not included)		Male SMA / 50 Ohm / 868 MHz
	Extension cable length	[m]	< 3
	Mounting method		35 mm DIN-rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	17.5x87x64.9 (1M)
	Weight	[g]	65
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Operating altitude	[m]	0... 2000
	Standards		EN 61010-1 / IEC 61010-1
			EN IEC 61326-1
			ETSI EN 301-489-3
			ETSI EN 300-220-2
	ABB Antenna		2CMA269075R1000

For indoor use only. For European countries only.

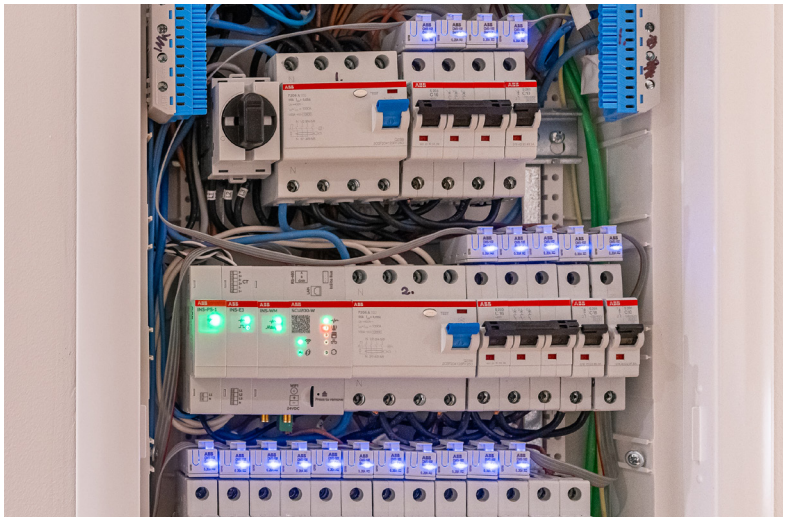
NEW Collector Hub module
INS-HUB



INS-HUB	Technical feature	Unit	Description
	Supply voltage	[VDC]	24 +/- 10%
	Connection		InSite modular bus
	Power consumption	[W]	1 (Idle mode - without sensors)
			2 (full mode - with full sensors)
	Communication ports		InSite bus (x2)
	Power supply 24 VDC connection		
	Conductor cross section solid/flexible	[mm²]	0.2 ...1
	AWG	[AWG]	28 - 17
	Strip length	[mm]	10
	Mounting method		35mm DIN-rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	17.5x87x64.9 (1M)
	Weight	[g]	~ 56
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Operating altitude	[m]	0... 2000
	Standards		EN 61010-1 / IEC 61010-1
			EN IEC 61326-1

For indoor use only.

Integrated devices
with SCU100 and SCU200



The InSite energy management system monitors a wide range of connected devices, including breakers, meters, EV chargers, and further electrical assets.

Integrated devices such as current sensors and smart accessories are automatically recognized by the InSite system once they are connected.

Branch monitoring sensors

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01

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02

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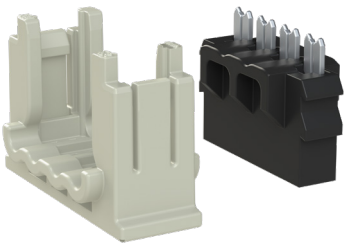
03



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04

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01
Solid-core sensor

—
02
Open-core sensor

—
03
Connectors

—
04
InSite flat cable (INS)
for an easy and fast connection of CMS sensors, I/O modules and smart accessories

Integrated devices
with SCU100 and SCU200

Smart accessories

05 06 07 08

05
Smart Auxiliary and Signalling device for protection device smart monitoring

06
Digital I/O modules for recognizing digital inputs or sending digital outputs

07
Tap-off Box module for conversion of flat cable communication to RJ45 and vice versa

08
ModBus Interface for MOD/AR ranges eMOD/AR ModBus

Meters, protection devices, and displays

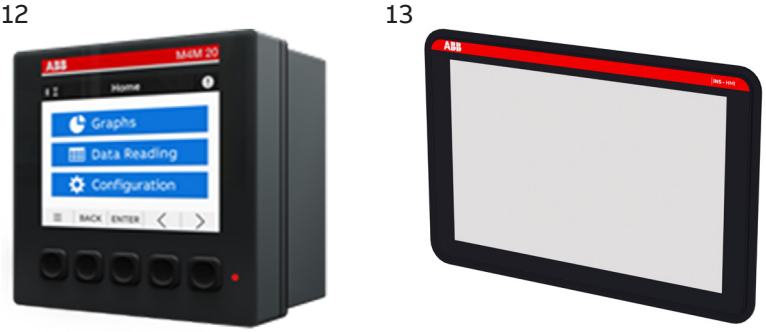
09 10 11

09
Energy meters

10
Power meters

11
Digital surge protective device eOVR

12 13



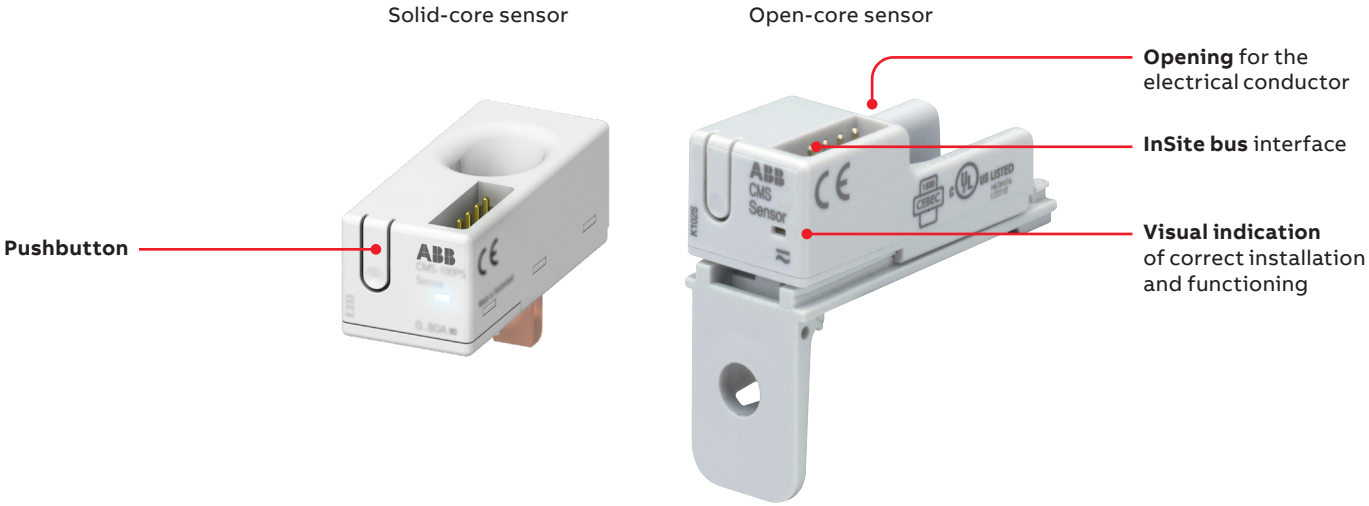
12
Network Analyzers

13
HMI Display INS-HMI

Branch monitoring sensors

The current sensors measure current on each branch and communicate with both SCU100 and SCU200 control units.
They can be easily mounted and, despite their small size, deliver exceptional performance and are capable of monitoring AC, DC, and mixed (TRMS) currents up to 160 A, including harmonic components.

Each sensor is equipped with a microprocessor to process signals and transmit data digitally to the control unit via the bus interface. This reduces cabling needs, enhances transmission reliability, and eliminates common issues associated with analog data.



Tailor the integration of the current sensors to your installation by selecting from up to four different mounting options, depending on the specific application, to ensure a simple and uncomplicated process.

		System pro M, SMISSLINE		S800	DIN rail	Cable tie
						
Mounting method	for all MCBs, RCDs, RCBOs with twin terminals	for MCBs (S200, SMISSLINE) and RCBOs (SMISSLINE)	for fuse holders E90	for all S800 devices with cage terminals	universally usable	universally usable
Open-core sensors						
AC accuracy* of ≤ ± 1.0% The laying method influences the accuracy.						
18-mm overall width						
CMS-120xx (80 A)	CMS-120PS	CMS-120LA	-		CMS-120DR	CMS-120CA
CMS-121xx (40 A)	CMS-121PS	CMS-121LA	CMS-121FH		CMS-121DR	CMS-121CA
CMS-122xx (20 A)	CMS-122PS	CMS-122LA	CMS-122FH		CMS-122DR	CMS-122CA
Solid-core sensors						
AC accuracy* of ≤ ± 0.5%						
18-mm overall width						
CMS-100xx (80 A)	CMS-100PS			CMS-100S8	CMS-100DR	CMS-100CA
CMS-101xx (40 A)	CMS-101PS			CMS-101S8	CMS-101DR	CMS-101CA
CMS-102xx (20 A)	CMS-102PS			CMS-102S8	CMS-102DR	CMS-102CA
						
25-mm overall width						
CMS-200xx (160 A)				CMS-200S8	CMS-200DR	CMS-200CA
CMS-201xx (80 A)				CMS-201S8	CMS-201DR	CMS-201CA
CMS-202xx (40 A)				CMS-202S8	CMS-202DR	CMS-202CA

* All accuracy specifications refer to the relevant full scale value and apply to 25°C

CMS-120LA

CMS-120FH

CMS-120PS

CMS-120CA

Open core sensors 18 mm

Sensor type			CMS-120xx	CMS-121xx	CMS-122xx
Measurement range		[A]	80	40	20
Measurement method			TRMS, AC 50 / 60 Hz, DC		
Peak value of the distorted wave-form			≤ 1.5	≤ 3	≤ 6
AC accuracy (TA = 25 °C)*			≤ ± 1 %		
AC* temperature coefficient			≤ ± 0.04 %		
AC accuracy (TA = 25 °C)*			≤ ± 1.2 %	≤ ± 1.4 %	≤ ± 1.8 %
DC* temperature coefficient			≤ ± 0.14 %	≤ ± 0.24 %	≤ ± 0.44 %
Resolution		[A]	0.01		
Internal sampling rate		[Hz]	5000		
Respond time (±1 %)		[sec]	Type 0.34		
Max. diameter of the cable		[mm]	9.6		
Insulation			690 V AC /1500 V DC		
Operating temperature		[°C]	– 25 ... + 70 / – 40 ... + 85		
Size	CMS-120PS series	[mm]	17.4 x 41.0 x 26.5		
	CMS-120CA series	[mm]	17.4 x 41.0 x 29.0		
	CMS-120DR series	[mm]	17.4 x 51.5 x 43.2		
	CMS-120LA series	[mm]	17.4 x 41.0 x 38.9		
	CMS-120FH series	[mm]	17.4 x 41.0 x 38.9		
Reference standard			IEC 61010-1 | UL508 / CSA C22.2 No 14		

* All accuracy specifications refer to full scale value and apply at 25° C.
In the case of open-core sensors, the position of the cable affects accuracy.

CMS-120DR

CMS-100PS

CMS-100S8

CMS-100DR

CMS-100CA

CMS-200S8

CMS-200DR

CMS-200CA

Solid-core sensors 18 mm

Sensor type			CMS-100xx	CMS-101xx	CMS-102xx
Measurement range		[A]	80	40	20
Measurement method			TRMS, AC 50 / 60 Hz, DC		
Peak value of the distorted wave-form			≤ 1.5	≤ 3	≤ 6
AC accuracy (TA = 25 °C)*			≤ ± 0.5 %		
AC* temperature coefficient			≤ ± 0.036 %		
AC accuracy (TA = 25 °C)*			≤ ± 0.7 %	≤ ± 1.0 %	≤ ± 1.7 %
DC* temperature coefficient			≤ ± 0.047 %	≤ ± 0.059 %	≤ ± 0.084 %
Resolution		[A]	0.01		
Internal sampling rate		[Hz]	5000		
Respond time (±1 %)		[sec]	Type 0.25		
Max. diameter of the cable		[mm]	10		
Insulation		[V]	690 V AC / 1500 V DC		
Operating temperature		[°C]	– 25 ... + 70 / – 40 ... + 85		
Size	CMS-100PS series	[mm]	17.4 x 41.0 x 26.5		
	CMS-100S8 series	[mm]	26.5 x 45.5 x 31.8		
	CMS-100DR series	[mm]	17.4 x 51.5 x 43.2		
	CMS-100CA series	[mm]	17.4 x 41.0 x 29.0		
Reference standard			IEC 61010-1 | UL508 / CSA C22.2 No 14		

* All accuracy specifications refer to the relevant full scale value and apply at 25° C.

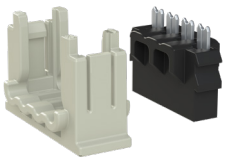
Solid-core sensors 25 mm

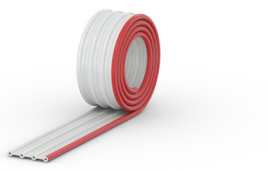
Sensor type			CMS-200xx	CMS-201xx	CMS-202xx
Measurement range		[A]	160	80	40
Measurement method			TRMS, AC 50 / 60 Hz, DC		
Peak value of the distorted wave-form			≤ 1.5	≤ 3	≤ 6
AC accuracy (TA = +25°C)*			≤ ± 0.5 %		
AC* temperature coefficient			≤ ± 0.036 %		
AC accuracy (TA = +25°C)*			≤ ± 0.7 %	≤ ± 1.0 %	≤ ± 1.7 %
DC* temperature coefficient			≤ ± 0.047 %	≤ ± 0.059 %	≤ ± 0.084 %
Resolution		[A]	0.01		
Internal sampling rate		[Hz]	5000		
Respond time (±1 %)		[sec]	Type 0.25		
Max. diameter of the cable		[mm]	15		
Insulation		[V]	690 V AC / 1500 V DC		
Operating temperature		[°C]	– 25 ... + 70 / – 40 ... + 85		
Size	CMS-200S8 series	[mm]	26.5 x 43.0 x 38.5		
	CMS-200DR series	[mm]	25.4 x 43.0 x 43.2		
	CMS-200CA series	[mm]	25.4 x 43.0 x 35.7		
Reference standard			IEC 61010-1 | UL508 / CSA C22.2 No 14		

* All accuracy specifications refer to the relevant full scale value and apply at 25 °C.

InSite flat cable and connector set

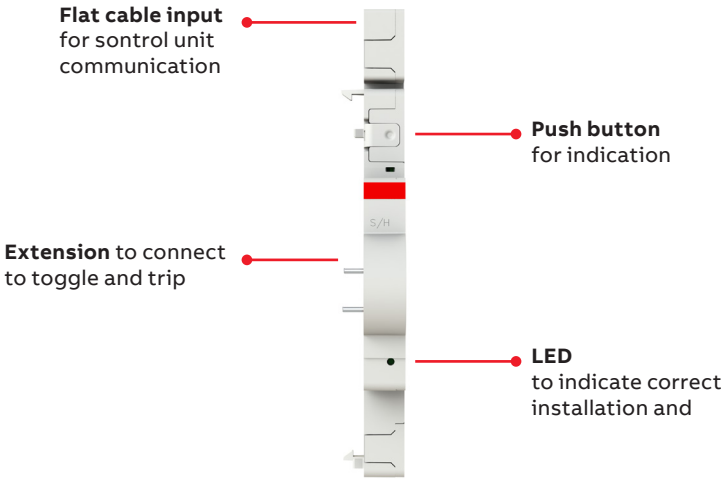
The control units require a flat cable to gather information from current sensors and digital I/O modules. A connector set contains 35 connector housings and connectors for connecting the flat cable to the sensors smart accessories. InSite flat cables come in different lenghts (2, 5, 10 and 30m). These devices can be placed at customizable distances as needed for the specific application.





Smart Auxiliary & Signalling device
INS-S/H

The InSite system features smart signaling devices that combine the functions of both a signaling device and an auxiliary device in a sleek design, occupying just 0.5 module width. These devices can be connected directly to the control units using the flat cable and are automatically detected and assigned in the webserver.
When the adjacent breaker trips, they alert users or provide information about the trip and toggle switch position. The SCU100 control supports connectivity for up to 96 smart signaling devices, while SCU200 can accommodate up to 32 smart signaling devices.



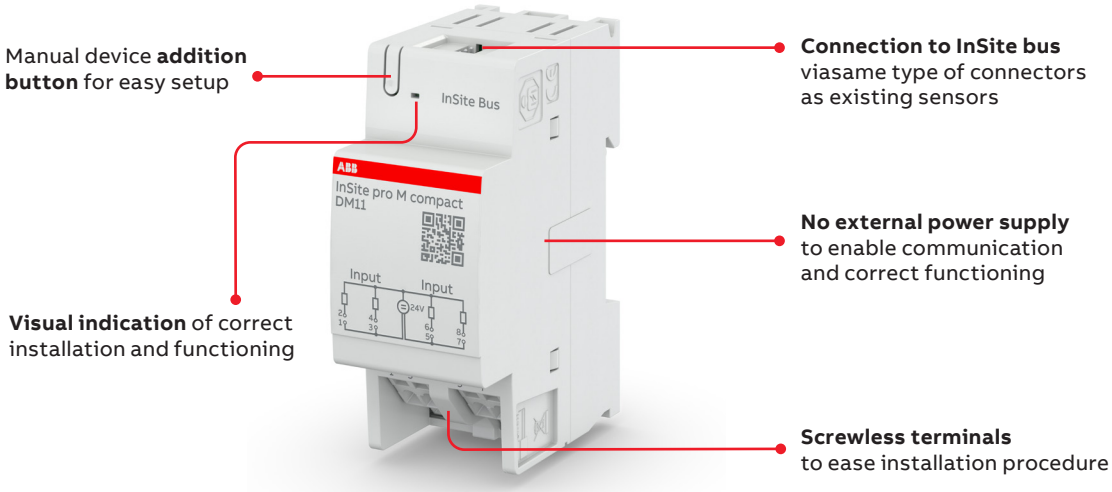
INS-S/H	Technical feature	Unit	Description
	Supply voltage	[VDC]	Supplied by the InSite modular bus
	Connection		InSite modular bus
	Power loss	[W]	0,1
	Mounting Position:		Right
	Pluggable accessories		S2CHR (x2)
			S2C-S/HR (x2)
	Mounting method		35mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	8.8x103x74
	Weight	[g]	30
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Operating altitude	[m]	0... 2000
	Standards		IEC61010-1
			IEC 61326-1
			IEC 60068
			IEC / EN 62019 for Main functionality
			IEC 60947-5-1 for Main functionality
			IEC61009 for RCDs compatibility
			EN 60898-1 for MCBs compatibility

Compatible ABB ranges with INS-S/H

	Technical feature	Unit	Description
	Suitable for Product Class:		Miniature Circuit Breaker Residual Current Device Arc Fault Detection Devices
	Suitable For:		MCBs S200 series, S300P
			RCDs F200, DS201
			AFDDs S-ARC1 , DS-ARC1
			Switch disconnectors SD200

Digital I/O modules
DM00, DM10, DM11

The digital Input/Output (I/O) modules offer a versatile range of functions, including reading contact status, activating or deactivating lines, and collecting utilities' consumption. The three types of digital signaling modules can be connected to both SCU100 and SCU200 control units and cater to diverse requirements: DM00, which reads up to 4 input signals, DM11, which generates 4 output signals, and DM10, featuring 4 ports of 2 input signals and 2 output signals. These modules can be connected to System pro M compact® accessories of MCBs and RCDs, as well as to other DIN-Rail products with digital input or output, and to pulse meters (e.g. water and gas meters). In addition to reading contact status and collecting utility consumptions, the output modules can generate signals on demand to control loads or activate or deactivate lines.



Input and Output modules	Technical feature	Unit	Input module DM11	Output module DM00	Input and Output module DM10
	Number of digital channels		4 Input	4 Output	2 Input + 2 Output
	Voltage (min - max)*		active input: 22-26 Vdc	relay output: 5Vdc-240Vac	active input: 22-26Vdc relay output:5Vdc-240Vac
	Current (min - max)*		active input: 4mA	relay output:5mA-2.5A Max 4,5A (<5sec)	active input: 4mA relay output: mA-2.5A Max 4,5A (<5sec)
	Pulse minimum duration**	[ms]	5	n/a	5
	Pulse frequency**	[Hz]	100	n/a	100
	Terminals cross section	[mm2]	2,5	2,5	2,5
	Mounting method		35 mm DIN rail (DIN 50022) or SMISSLINE TP plug base		
	Degree of protection		IP20	IP20	IP20
	Dimensions	[mm]	36x88x65	36x88x65	36x88x65
	Operating temperature	[°C]	-25...+60	-25...+60	-25...+60
	Storage temperature	[°C]	-40...+85	-40...+85	-40...+85
	Standards		IEC 61010	IEC 61010	IEC 61010

*Relay output values reported are applicable to resistive load **Applicable only to active inputs

Compatible ABB ranges with I/O modules

Molded Case Circuit Breaker	Residual Current Devices
Tmax XT	
S 200	RCCBs – F 200
SN 201	RCD-blocks - DDA 200 DDA 800
SN 200 80-100A	RCBOs – DS 201, DS 202, DS 203, DS200, DS800

Molded Case Circuit Breaker	Residual Current Devices
S 750 DR	eRCBOs – DSE, DSN
S 700	
S 800	

InSite Tap-off Box module
INS-TB

Designed for data center busway applications, the Tap-off Box module allows the InSite bus to be converted to RJ45, enabling sensor connections in individual tap-off boxes without requiring a full SCU200 unit.

With the SCU200 installed only in the main (master) box, Tap-off Box modules extend its capabilities up to 70 meters, allowing easy integration of sensors at multiple tap-off points.

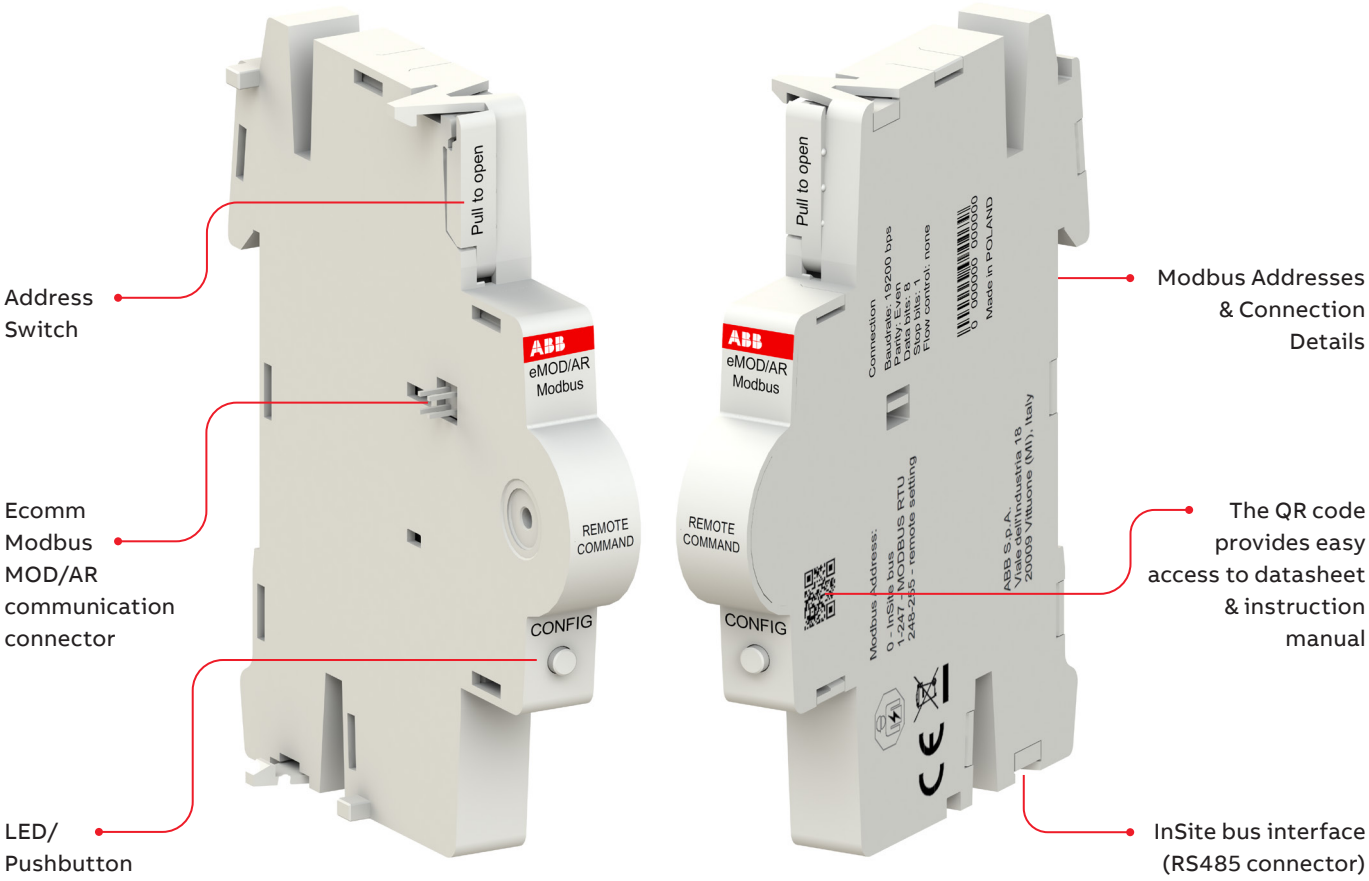
Flat cable and RJ45 Ports on top

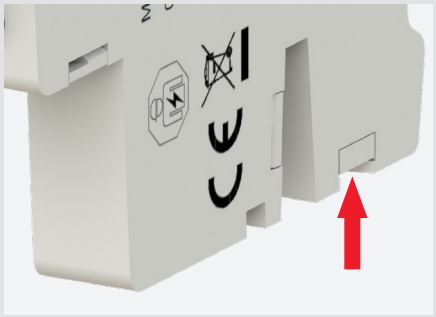
Switch button: Change switch position only to the last INS-TB module of the daisy chain

RJ45 Port on bottom

INS-TB	Technical feature	Unit	Description
	Supply voltage	[VDC]	Passive device
	Connection		InSite bus and Ethernet
	Mounting method		35mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	17.5x87.0x64.9 (1M)
	Weight	[g]	45
	Pollution degree		2
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Standards		EN 61010-1 / IEC 61010-1
	Declarations		UKCA / CE
	Voltage level	[DC]	7V (min) - 9.5V (max)
	All connection shall be done with SELV circuit		
	Ethernet communication ports type		10baseT (IMPORTANT: DO NOT CONNECT THIRD PARTY EQUIPMENT TO DEVICE, INTERNAL PROPRIETARY PROTOCOL)

NEW ModBus Interface for MOD & AR
eMOD/AR ModBus





Connectivity
Ensures seamless integration with the InSite energy management system and enables communication with third-party services.

Control & Easy access to data
Remote control and continuous monitoring provide easy access to both real-time and historical data through the InSite Energy Management Platform.

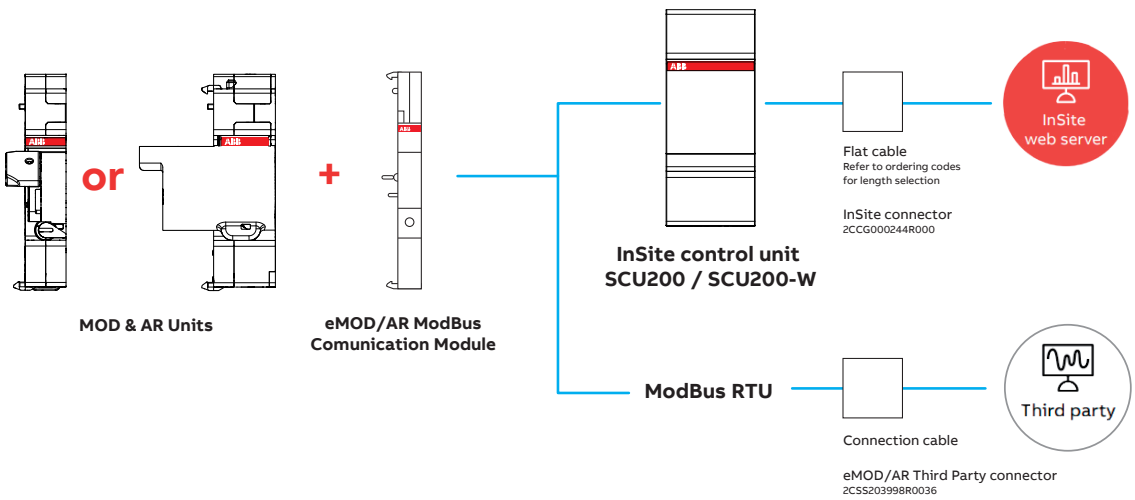
Compactness
Extremely compact, taking up only 0.5 modules of space, which ensures efficient space-saving.

eMOD/AR ModBus

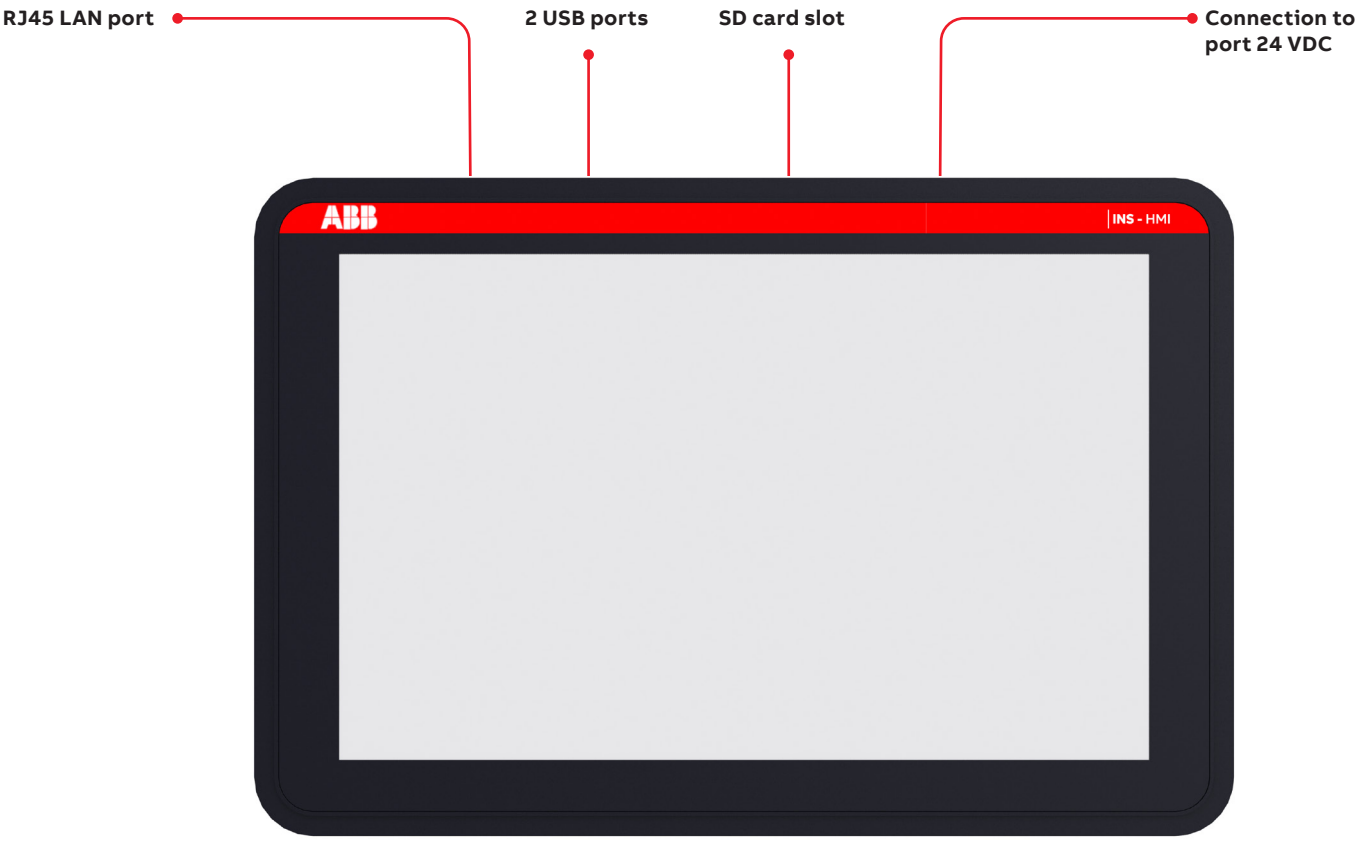
	Description
Suitable for *	S3C-MOD230, S3C-MOD24, F3C-AR24, F3C-AR230, F3C-AR230 D F3C-AR230 C, F3C-AR230C H
Number of modules	Half module
Connection	InSite control unit (SCU200 / SCU200-W) or Third-party Network
Communication Protocol	ModBus RTU
RS485 Cross-section of conductors	
Solid/flexible	0.14 ... 0.15 mm²
Solid	28-16 AWG
Flexible	26-14 AWG
Power loss	<1.0W
Mounting Position	Right for compatible devices
Pluggable accessories	Not allowed
Mounting method	35mm DIN rail (DIN 5022)
Degree of protection	IP40
Maximum number of eMOD/AR units that can be connected to the SCU200	8
Parity	Even (default), Odd, None
Transmission speed (Baud Rate)	2400, 4800, 9600, 19200 (default), 38400, 57600,115200
Dimensions	8.8x85x74 mm
Weight	30 g
Operating temperature	-25 ...+60 °C
Storage temperature	-40 ...+70 °C
Operating altitude	0 ... 2000 m
Standards	EN 61010-1 / IEC 61010-1 / EN IEC 61326-1

* eMOD/AR is compatible with S3C-MOD230, F3C-AR230, F3C-AR230 D produced only after 31/01/2025. The production date of S3C-MOD230, F3C-AR230, F3C-AR230 D is reported on external label on the packaging and on the device (fomat WWYY).

The Motor Operating Devices (MOD) & Auto-Reclosing units (AR), when combined with the ModBus Interface (eMOD/AR ModBus), can connect to either the InSite web server or a third-party network.



NEW HMI Display
INS-HMI



Effortless access
- No laptop required to connect to the Web UI

Field-friendly device
- Simplified view from the InSite web server, tailored for field personnel

Rapid response & instant visibility
- Clear visualization of events and data for quick, informed decisions
- Provides instant access to electrical parameters measured and collected by the InSite energy managmenet system

INS-HMI	Technical feature	Unit	Description
	**Power**		
	Supply voltage	[VDC]	24 +/- 10%
	Power consumption	[W]	3.6 idle mode, 36 rated
	Protection against reverse polarity		Yes
	Connection at the panel		DC standard: Ø5.5, Ø2.5 (plug included)
	Product data		
	Size diameter		10.1''
	Resolution		1280 x 800 pixel
	Type		TFT LCD, 16M colors
	Touch screen		Capacitive PCAP multi-touch glass cover lens brightness 300 CD/Mq
	System properties		
	Processor type		Quad-Core ARM Cortex-A55
	Operating system		Linux
	RAM		2GB LPDDR4
	Flash memory		16 GB eMMC
	Card slot		micro SD card / TF card
	Interfaces		
	Network Interface 1 x10/100 Mbit/s RJ45		
	USB port 1		2.0 - max. 500 mA
	USB port 2		2.0 - max. 500 mA
	Environmental conditions		
	Operating temperature	[°C]	-10...+50
	Storage temperature	[°C]	-20...+60
	Humidity		90% RH, non-condensating
	Operating altitude	[m]	0...2000
	Mechanical specifications		
	Dimensions	[mm]	262 x 176 x 41 (+/-1)
	Degree of protection		IP64 front - IP20 rear
	Mounting method		Panel mounting in cutout
	Moutning variant		Landscape mode
	Weight	[kg]	1.3
	Standards		EN 61010-1 / IEC 61010-1
			EN 55032 / EN 55035

For indoor use only.

Ordering data
Control units, modules and accessories

Description	GTIN 7612271 EAN	Ordering details		Weight of 1 unit (kg)	Packaging unit (pce.)
		Brief description	Order code		
Control Units					
Control Unit	516284	SCU200	2CCG001158R0001	0.101	1
Control Unit with wireless interface	516277	SCU200-W	2CCG001157R0001	0.105	1
Sub-distribution Control Unit	508104	SCU100	2CCG000242R0001	0.329	1
Integrated devices					
Smart Signal/Auxiliary Contact	516826	INS-S/H	2CCG001213R0001	0.028	1
Digital Input Module (4 inputs)	508135	DM11	2CCG000245R0001	0.075	1
Digital Output Module (4 outputs)	508142	DM00	2CCG000246R0001	0.085	1
Digital Input and Output Module (2 inputs, 2 outputs)	508159	DM10	2CCG000247R0001	0.080	1
Tap-off Box Module	680758	INS-TB	2CMA268075R1000	0.045	1
Modbus Interface for MOD/AR ranges	540151	eMOD/AR ModBus	2CSS201998R0036	0.030	1
InSite HMI display	784654	INS-HMI	2CMA278465R1000	1.300	1
Metering, expansion and communication modules for SCU200					
Split-core Current Transformer - 20A	516437	CTS-1-20	2CCG001154R0001	0.045	1
Split-core Current Transformer - 50A	516444	CTS-1-50	2CCG001155R0001	0.045	1
Split-core Current Transformer - 80A	516451	CTS-1-80	2CCG001156R0001	0.045	1
Energy Meter Module - 40mA	516291	INS-E3	2CCG001159R0001	0.052	1
Energy Meter Module - 5A	681359	INS-E3-5	2CMA268055R1000	0.052	1
Power Supply Module - 15W	516406	INS-PS-1	2CCG001160R0001	0.077	1
Power Supply Module - 30W	516420	INS-PS-2	2CCG001172R0001	0.110	1
Wireless M-bus Module	516413	INS-WM	2CCG001171R0001	0.048	1
USB Module	518202	INS-USB	2CCG001351R0001	0.046	1
LTE Connectivity Module	681250	INS-LTE	2CMA268125R1000	0.100	1
Antenna for the InSite system	690757	INS-ATE	2CMA269075R1000	0.0075	1
LoRa Communication module	681359	INS-LORA	2CMA268135R1000	0.100	1
Collector Hub Module	784555	INS-HUB	2CMA278455R1000	0.100	1
Flat cable connection accessories					
Flat cable 2m	519803	INS102	2CCG001491R0001	0.017	1
Flat cable 5m	508111	INS105	2CCG000243R0001	0.046	1
Flat cable 10m	519810	INS110	2CCG001493R0001	0.090	1
Flat cable 30m	519827	INS130	2CCG001494R0001	0.270	1
Connector set (35pcs)	508128	INS135	2CCG000244R0001	0.024	35

Ordering data
Current sensors

CMS-120LA

CMS-120PS

CMS-120DR

CMS-120CA

CMS-100PS

CMS-100S8

CMS-100DR

CMS-100CA

Description	GTIN 7612271 EAN	Ordering details		Weight of 1 unit (kg)	Packaging unit (pce.)
		Brief description	Product no.		
Open-Core Sensors, 18 mm					
Retrofit for DIN-rail protection devices and SMISSLINE					
80 A	498627	CMS-120LA	2CCA880225R0001	0.012	1
40 A	498610	CMS-121LA	2CCA880226R0001	0.012	1
20 A	498603	CMS-122LA	2CCA880227R0001	0.012	1
Mounting on DIN-rail protection devices and SMISSLINE					
80 A	452957	CMS-120PS	2CCA880210R0001	0.012	1
40 A	452971	CMS-121PS	2CCA880211R0001	0.012	1
20 A	452995	CMS-122PS	2CCA880212R0001	0.012	1
DIN-rail mounting					
80 A	453077	CMS-120DR	2CCA880240R0001	0.015	1
40 A	453091	CMS-121DR	2CCA880241R0001	0.015	1
20 A	453114	CMS-122DR	2CCA880242R0001	0.015	1
Mounting on cable with cable tie					
80 A	453015	CMS-120CA	2CCA880220R0001	0.011	1
40 A	453039	CMS-121CA	2CCA880221R0001	0.011	1
20 A	453053	CMS-122CA	2CCA880222R0001	0.011	1
Solid-Core Sensors, 18 mm					
Mounting on DIN-rail protection devices and SMISSLINE					
80 A	419202	CMS-100PS	2CCA880225R0001	0.012	1
40 A	419219	CMS-101PS	2CCA880101R0001	0.012	1
20 A	419226	CMS-102PS	2CCA880102R0001	0.012	1
Mounting on High Performance Circuit Breakers S800					
80 A	426552	CMS-100S8	2CCA880124R0001	0.014	1
40 A	426569	CMS-101S8	2CCA880125R0001	0.014	1
20 A	426576	CMS-102S8	2CCA880126R0001	0.014	1
DIN-rail mounting					
80 A	426583	CMS-100DR	2CCA880128R0001	0.015	1
40 A	426590	CMS-101DR	2CCA880129R0001	0.015	1
20 A	426606	CMS-102DR	2CCA880130R0001	0.015	1
Mounting on cable with cable tie					
80 A	426613	CMS-100CA	2CCA880107R0001	0.011	1
40 A	426620	CMS-101CA	2CCA880108R0001	0.011	1
20 A	426637	CMS-102CA	2CCA880109R0001	0.011	1

Ordering data
Current sensors

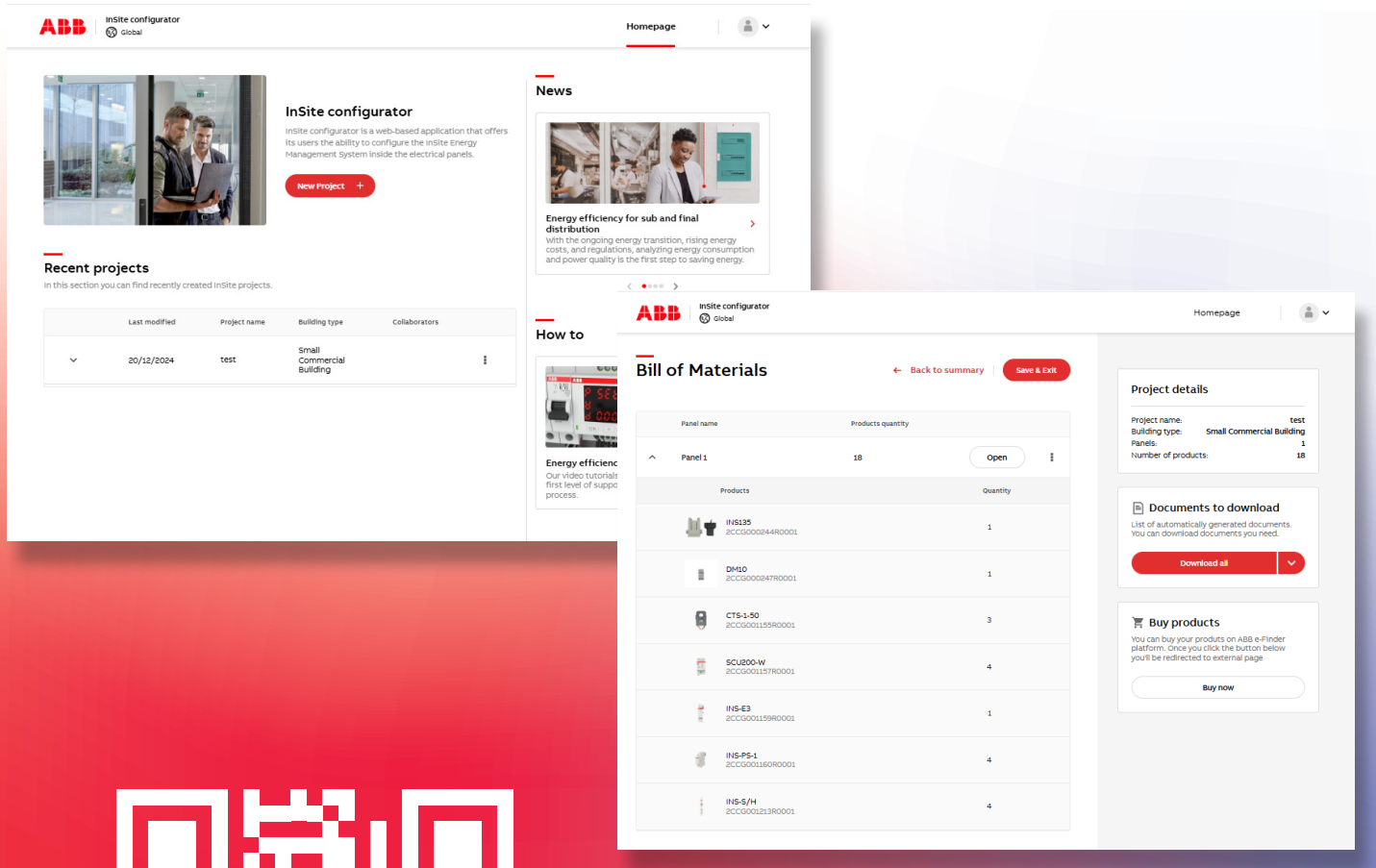
CMS-200S8

CMS-200DR

CMS-200CA

Description	GTIN 7612271 EAN	Ordering details		Weight of 1 unit (kg)	Packaging unit (pce.)
		Brief description	Order code		
Solid-Core Sensors, 25 mm					
Mounting on High Performance Circuit Breakers S800					
160 A	426644	CMS-200S8	2CCA880136R0001	0.028	1
80 A	426651	CMS-201S8	2CCA880137R0001	0.028	1
40 A	426668	CMS-202S8	2CCA880138R0001	0.028	1
DIN-rail mounting					
160 A	426675	CMS-200DR	2CCA880132R0001	0.030	1
80 A	426682	CMS-201DR	2CCA880133R0001	0.030	1
40 A	426699	CMS-202DR	2CCA880134R0001	0.030	1
Mounting on cable with cable tie					
160 A	426705	CMS-200CA	2CCA880117R0001	0.026	1
80 A	426712	CMS-201CA	2CCA880118R0001	0.026	1
40 A	426729	CMS-202CA	2CCA880119R0001	0.026	1

InSite configurator
Start configuring now!



InSite configurator

ABB Ltd.
ABB Electrification
Smart Buildings Division

solutions.abb/energyefficiencydevices

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