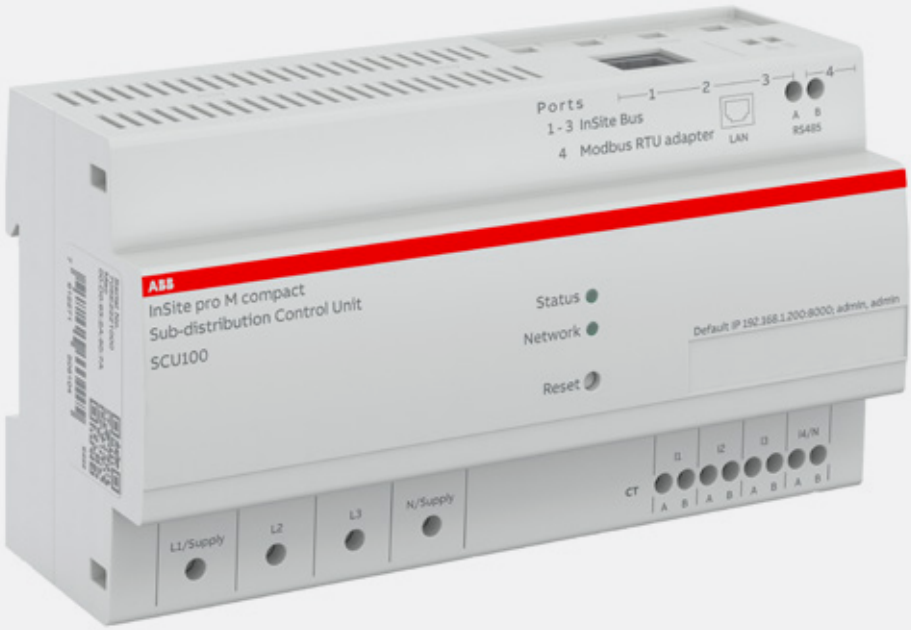
CATALOG

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.

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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**, helping ensure 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.

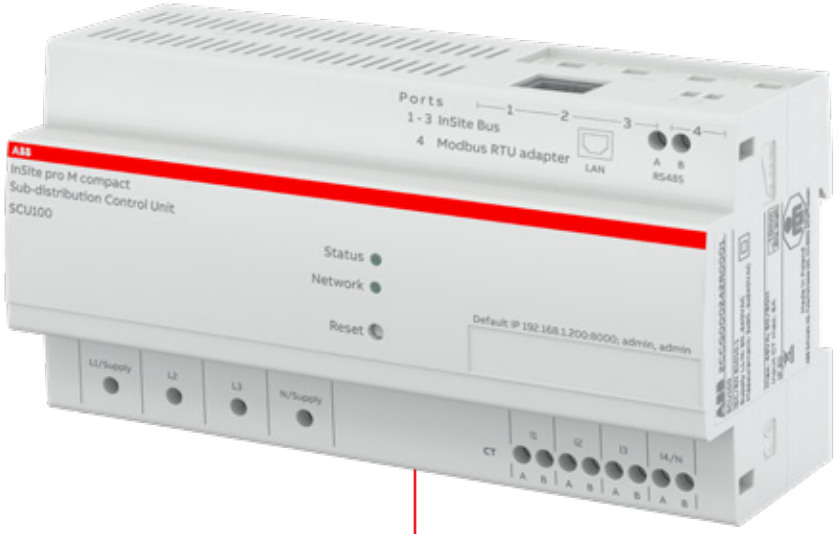
Protection devices, such as our digital surge protective device eOVR, or our standard protection portfolio equipped with smart aux/signaling device INS-S/H, are predefined in the SCU100 and SCU200 web servers. The eOVR can be connected directly via Modbus RTU while other devices can be connected via 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 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 third-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 5 A 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/signal) 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 5 A 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

COMPARATIVE OVERVIEW OF SCU100 AND SCU200

SCU200

Modular approach

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

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

SUITABLE FEATURES

- **Comprehensive monitoring**, **advanced control** and 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, unmanned substations, small commercial

Technical feature	Description
Number of connectable devices (Current sensors, IO modules, smart aux/signal) 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 and current sensors.

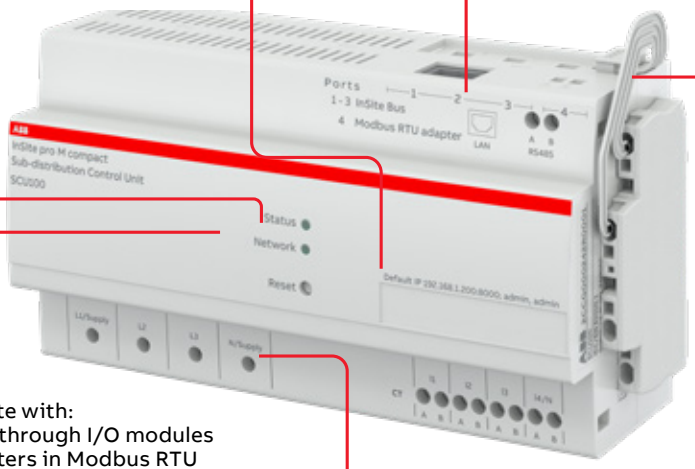
Capable of collecting data from up to 16 energy and power meters via Modbus RTU, 16 energy and power meters (limit: 4 registers for each device) via Modbus TCP and 96 current sensors and digital channels simultaneously, the SCU100 calculates energy usage and operational metrics at a single-line level,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

3 ports for up to 128 connected devices:

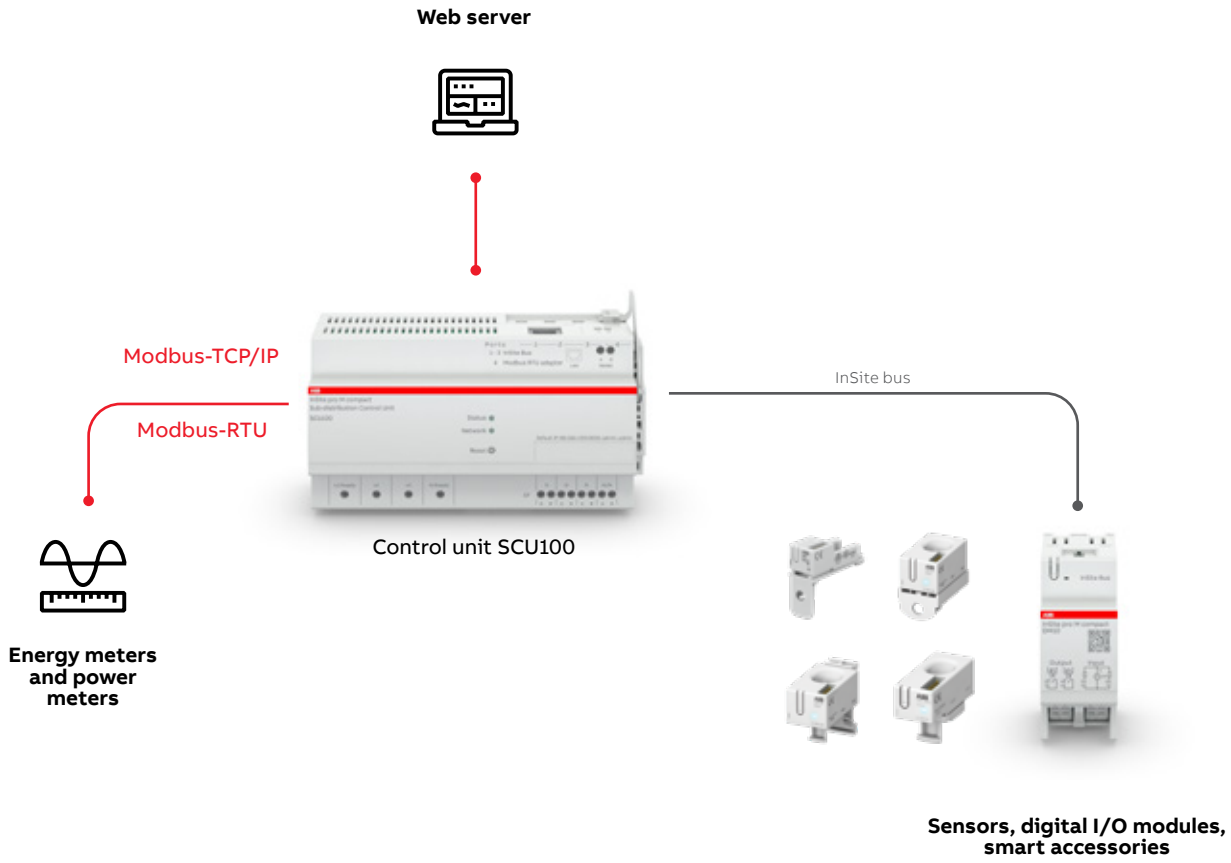
1. **Ethernet RJ45 port — Modbus TCP**: Connectivity of up to 16 TCP devices of any kind (meters, breakers, EV chargers, solar…*4 registers each)
2. **RS485 port — Modbus RTU**: Connectivity of up to 16 RTU devices of any kind (meters, breakers, EV chargers, solar…)
3. **InSite bus port**: Connectivity 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	[V AC]	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 transformer, secondary side	[VA]	Current circuit <2 (per phase)
	Voltage measurement range	[V AC]	80–277 (L1, L2, L3-N)
	Measurement range, current transformer, secondary side	[A]	Nominal: 5 Maximum: 6
	Harmonic component	[Hz]	Up to 2000
	Data rate of Modbus RTU	[Baud]	RS485 2-wire, 2400...115200
	Refresh time		1 sec/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		35 mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	161.5 x 87.0 x 64.9 (9WM)
	Operating temperature	[°C]	-25... +60
	Storage temperature	[°C]	-40... +85
	Standards		IEC61010-1, UL 508

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

WEB SERVER

SCU100

Insite SCU100 built-in web server 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.

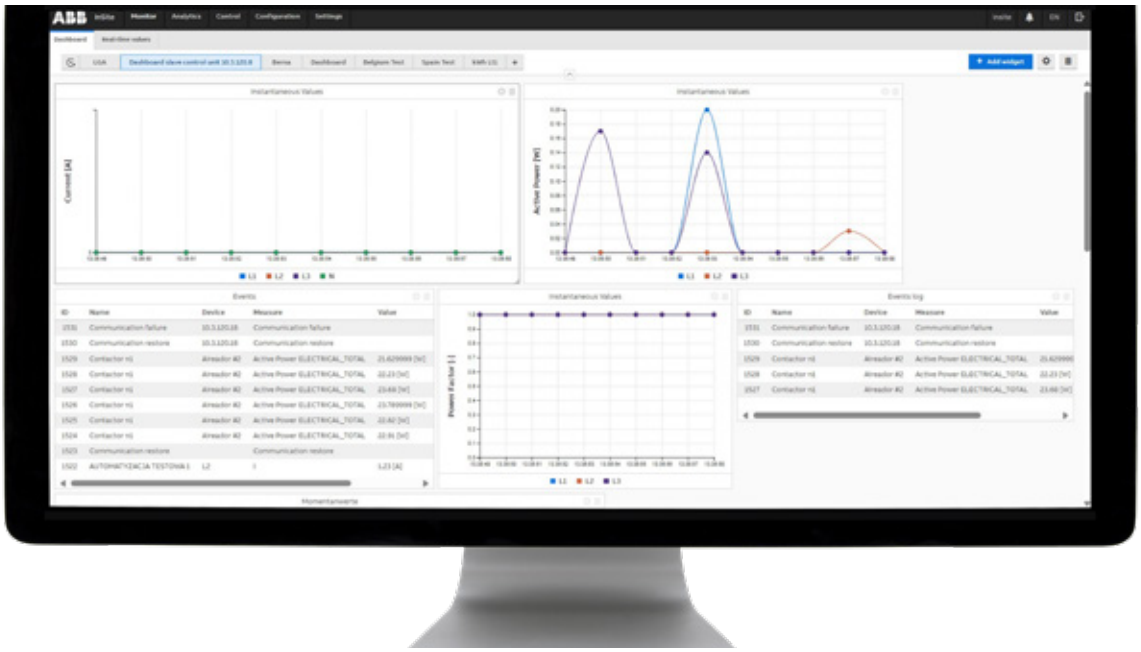
The web server also makes it easy to adjust settings, commission new configurations, export reports, set up automations and alerts and configure email notifications, providing a comprehensive and intuitive energy management experience.

Real-time widgets and benchmarking

Complete historical analysis

Automated data export

Alarms and events



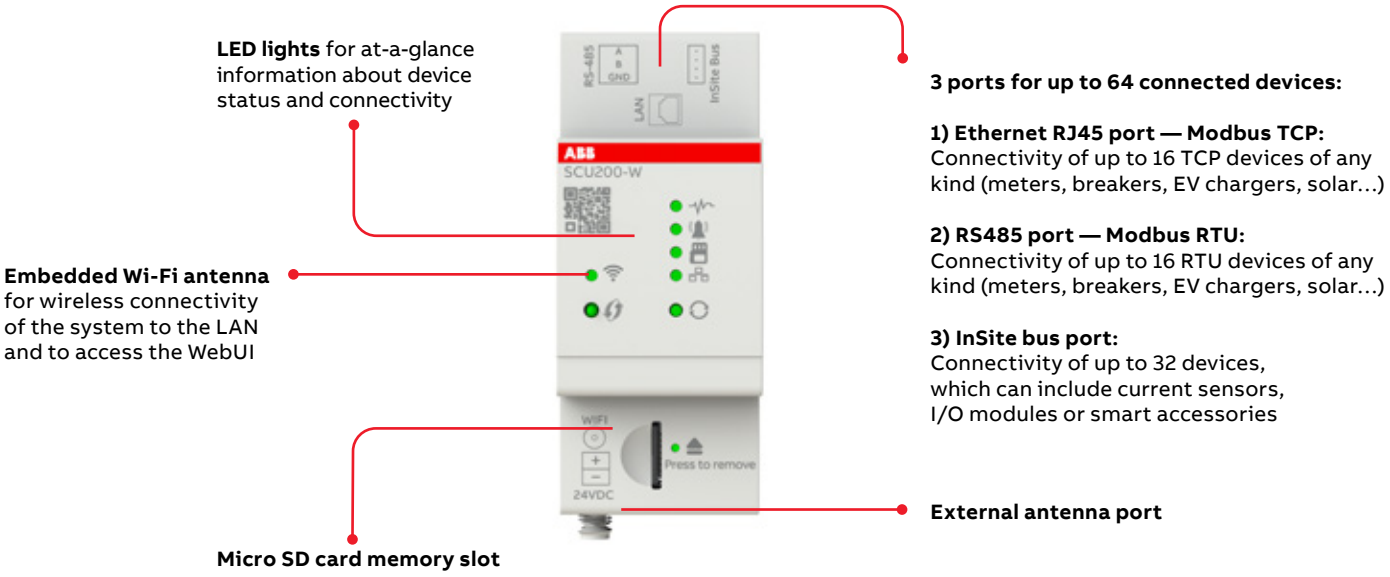
CONTROL UNIT

SCU200 and SCU200-W

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

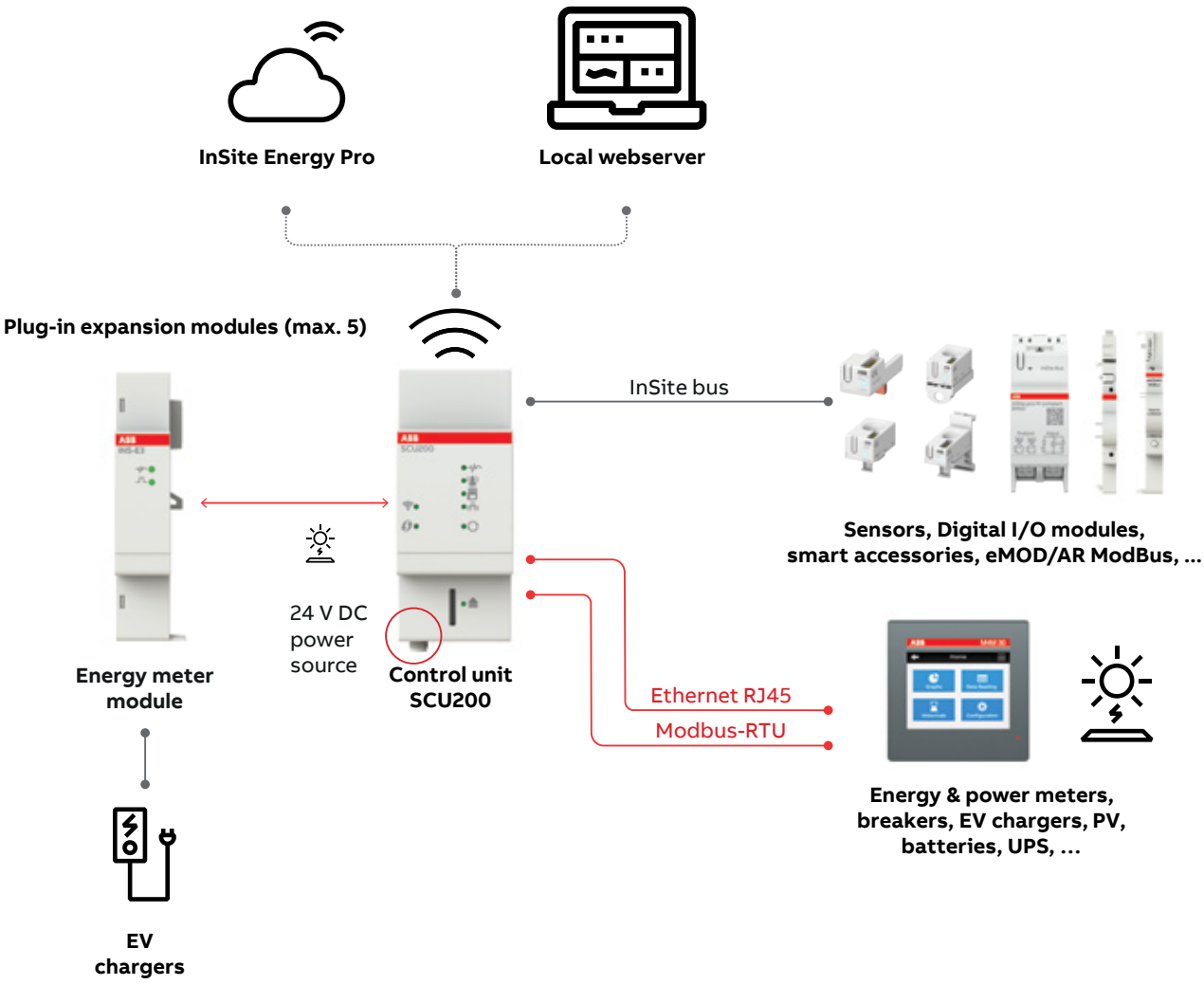
The compact control unit collects data from field devices, which can then be accessed via the InSite web server or any third-party application.

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



SYSTEM ARCHITECTURE

with SCU200 and SCU200-W



TECHNICAL DATA

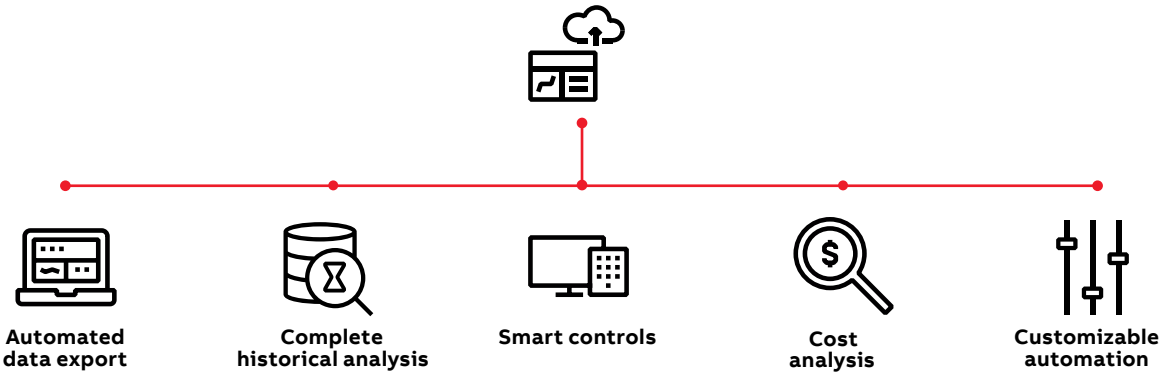
SCU200 and SCU200-W

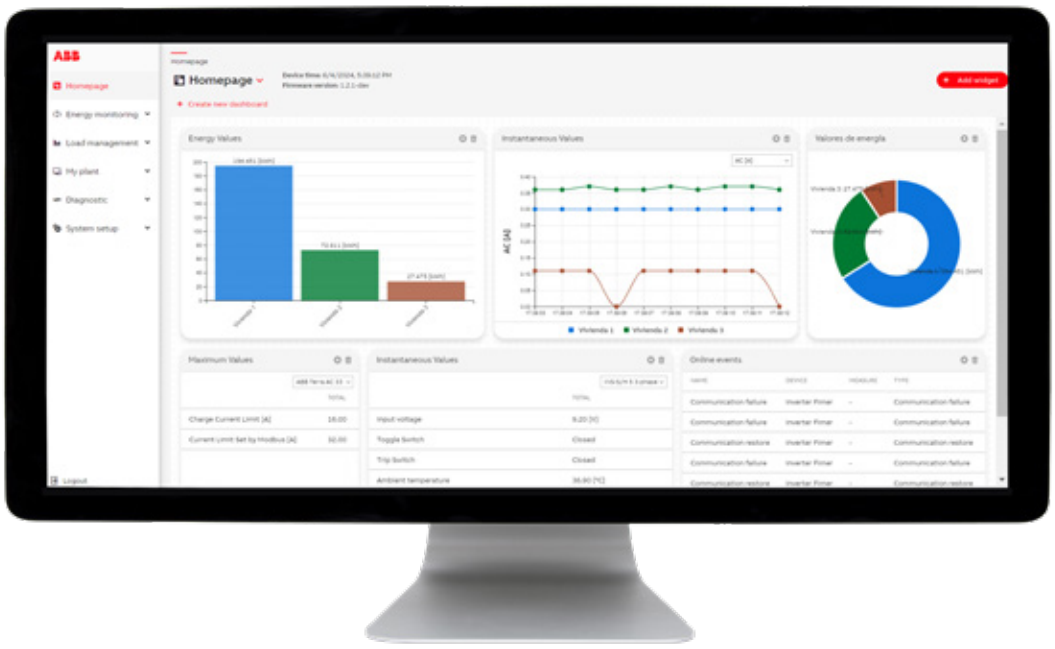
SCU200 / SCU200-W	Technical feature	Unit	Description
	Supply voltage	V DC	24 ± 10%
	Current	A	0.7
	Connection		InSite modular bus
	Power consumption	W	2.5…15 (depending on load)
	Refresh time		1 sec/30 sec (depending on data type)
	Data storage		Integrated data storage; expandable via micro SD
	Data export		Automatic CSV data export, REST API, FTP/SFTP, SMTP, MQTT, Modbus TCP/IP
	Communication protocols		Modbus RTU, Modbus TCP/IP, REST API, DHCP, HTTPS, NTP, SMTP, FTP/SFTP, MQTT
	Communication ports	Mbit/s	Ethernet 10/100
			RS485 (120 Ω termination default)
			WiFi 2.4 GHz IEEE 802.11 b/g/n*
	External antenna port		Female SMA/50 Ω/2.4 GHz*
	Power supply 24 V DC connection		Solid/flexible conductor cross section 0.2…1 mm²
	Max. RS485 cable length	m	30
	Connected devices		Up to 32 CMS sensors/digital channels/smart accessories
			Up to 16 Modbus TCP and 16 Modbus RTU devices
	Mounting method		35 mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Standards		EN 61010-1/ IEC 61010-1
			EN IEC 61326-1 UL 61010-1
	Enclosure		Open type
	Equipment function		Control unit
	Connection to mains supply		Permanent
	Overvoltage category		II
	Pollution degree		2
	Means of protection		Class III
	Operating temperature	°C	-25 to +60 (extended)
	Humidity	%RH	5–90
	Storage temperature	°C	-40 … +85
	Altitude	m	2000
	For use in wet locations		No
	Equipment mobility		Built-in, DIN rail
	Operating conditions		Continuous
	Overall size (W x D x H)	mm	36 × 45 × 88
	Mass of equipment	kg	0.105 approx.
	Marked degree of protection		IP20 (not UL evaluated)
	Type rating UL50/50E		Open type
	Electrical Ratings — input		24 V DC ±10%, max. 0.7 A, 15 W
	Communications circuits		1 InSite bus (RS485), 1 modular bus, 1 isolated RS485 (2-wire), 1 Ethernet, 1 Wi-Fi antenna (SCU200-W only)
	Safety classification		Device supplied by limited energy (UL 61010-1 Sec. 9.4 or LPS/ UL 60950-1/UL 62368-1/UL 1310/UL 1585)
	SELV classification		All comm. signals SELV except isolated RS485 (2-wire)
	RS485 isolation		Optocoupler isolated from SELV supply
	Max. connected devices		64 total: 16 Ethernet, 16 RS485, 32 InSite bus

WEB SERVER

SCU200 and SCU200-W

Once the system is installed, it enables connection to the integrated InSite web server with automatic device recognition. Real-time insights into energy consumption and power quality are provided through the SCU200 local web server. 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. 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 helps ensure 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.





ENERGY MANAGEMENT CLOUD PLATFORM

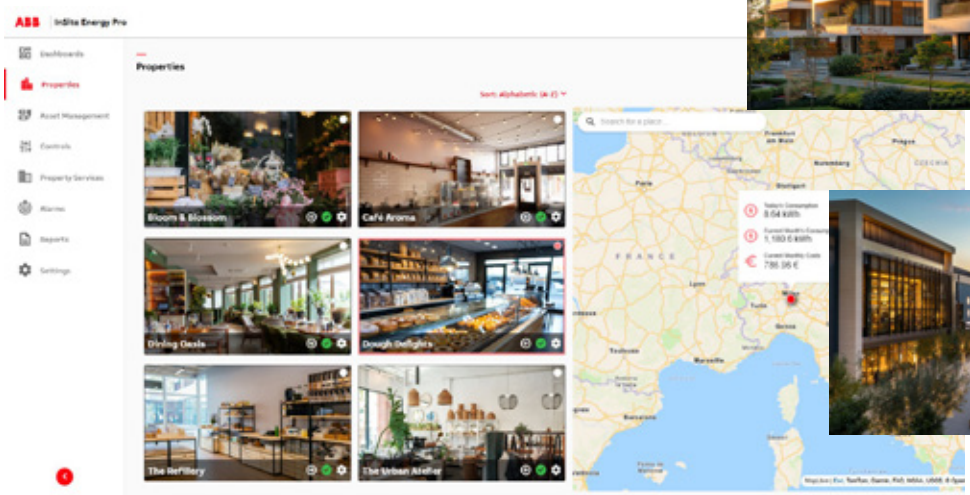
InSite Energy Pro

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

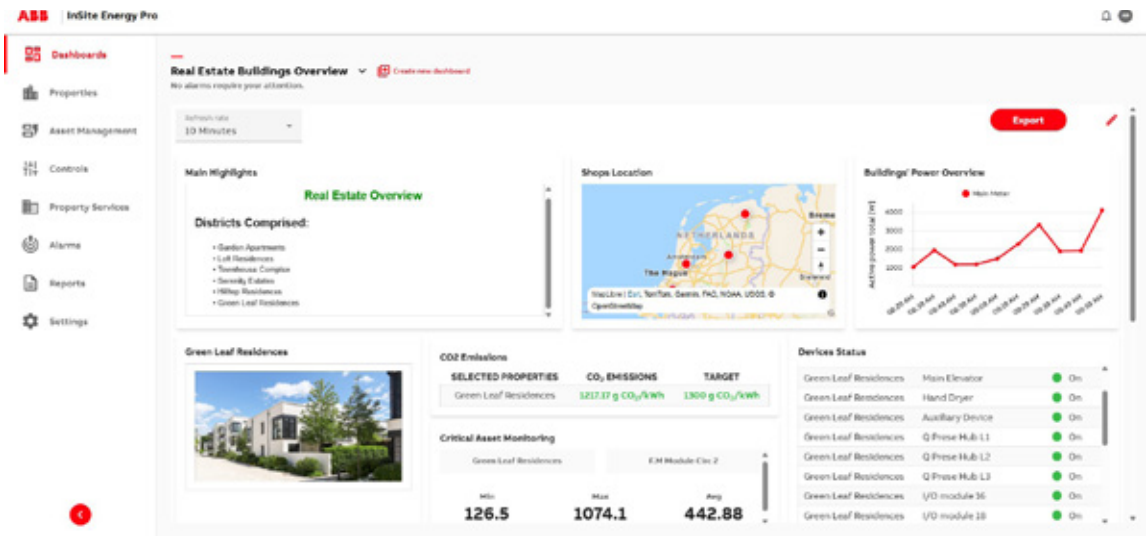
- **Reduce complexity, costs and space** with only one control unit as the main gateway
- **Easy retrofit and upgrade of existing installation** at any time, minimizing impact on building operations
- **Enable integration and connection** to other third-party systems, using data from the cloud to enrich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

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 devices connected to the system, visualizing their status and details.
- **Control:** Manual control of selected loads (for example, 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 and KPI overview
- **Real-time notification**s 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 overall performance and KPIs
- **Supports compliance** with energy efficiency regulations (for example, ISO 50001)

PLUG-IN EXPANSION MODULES

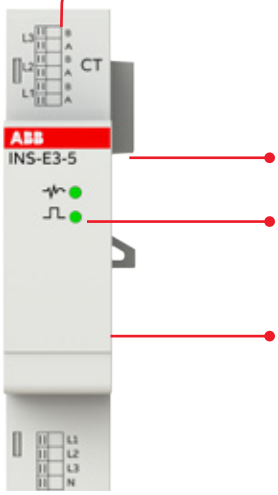
for SCU200 and SCU200-W

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

Simply plug up to five expansion modules into the central control unit SCU200(W) — without any tools required. The system will automatically recognize the modules, making them visible in its local web server and cloud platform.

METERING MODULE

INS-E3-5



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

Powered directly from InSite plug-in bus

Status LED for instant visual feedback

Functions as either a single-phase or three-phase energy meter

Technical feature	Unit	INS-E3-5
Supply voltage	[VDC]	24 V supplied by the
Connection		InSite modular bus
Power consumption	[W]	0.7
Overvoltage category		II
Network type		- 3-phase 4-wire; 3 CT
		- 3-phase 3-wire; 3 CT
		- 3-phase 4-wire; 2 CT
		- 1-phase 2-wire; 1 CT
Voltage input connection		Screwless terminal block
Voltage specified measurement range (full accuracy)	[VAC]	80–240 (L1,L2, L3-N)
Voltage limit range of operation	[VAC]	0–277
Frequency	[Hz]	50/60
Data availability		SCU200 web server, Modbus TCP, Rest API, reports via SMTP/FTP
Current transformers		
Current transformers		Any CT
Current transformer supported on primary side	[A]	No upper limit
Current transformer supported on secondary side	[A]	Nominal: 5
Accuracy — INS-E3-5 (@25°C, PF=1)		Active energy 1%
Conductor cross-section		
Solid/fine-stranded conductor	[mm²]	0.14…1.5
AWG solid conductor	[AWG]	28–16
AWG fine-stranded conductor	[AWG]	26–14
Fine-stranded conductor with insulated ferrule	[mm²]	0.25… .75
Fine-stranded conductor with uninsulated ferrule	[mm²]	0.25…1.5
Strip length	[mm]	8…9
CTS cable length	[m]	0.5
Mounting method		35 mm DIN rail (DIN 5022)
Dimensions	[mm]	17.5 x 87.0 x 64.9 (1M)
Weight	[g]	52
Relative Humidity		0.95
Over voltage Category		II
IK code		IK06
Pollution degree		2
Operating temperature	[°C]	-25...+60
Storage temperature	[°C]	-40...+85
Standards		EN 61010-1/IEC 61010-1, EN IEC 61326-1
Operating altitude	[m]	0...2000
Standards		IEC 61010-1, IEC 61326-1, UL 61010-1

INTEGRATED DEVICES

with SCU100 and SCU200/SCU200-W

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

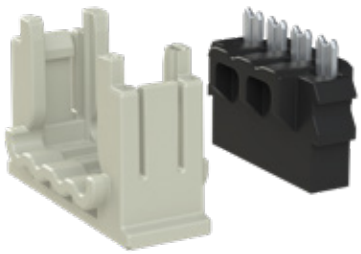
Integrated devices, such as current sensors and smart accessories, are automatically recognized by the InSite system once they are connected.

Branch monitoring sensors

01
Solid-core sensor

02
Open-core sensor

03
Connectors



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

INTEGRATED DEVICES

with SCU100 and SCU200/SCU200-W

Smart accessories

05
Digital I/O modules for recognizing digital inputs or sending digital outputs

06
Tap-off box module for conversion of flat cable communication to RJ45 and vice versa

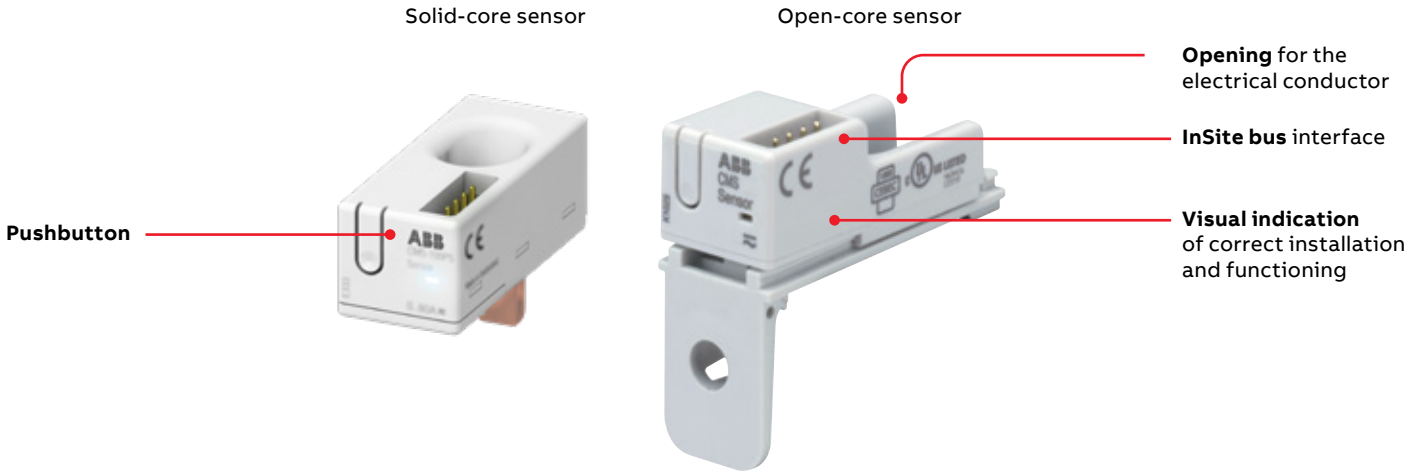
Meters and displays

07
Energy meters

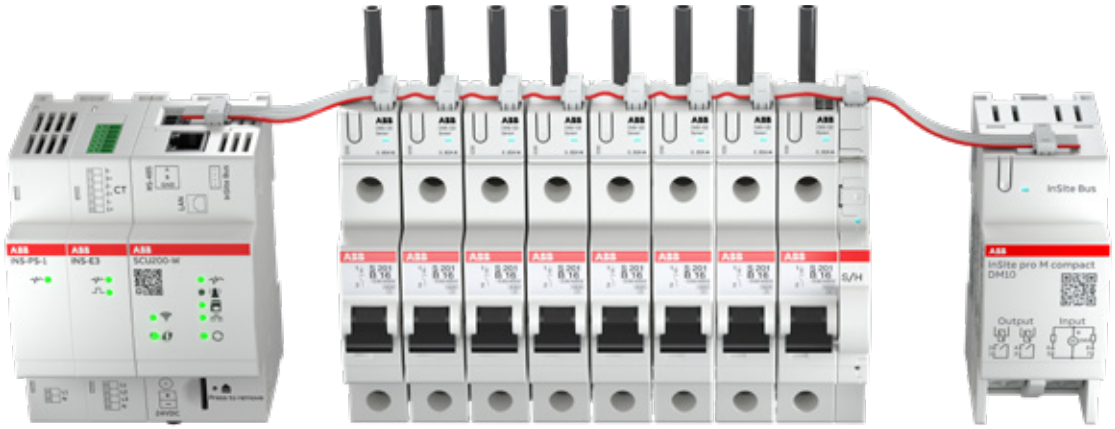
BRANCH MONITORING SENSORS

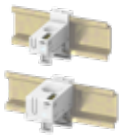
Current sensors measure current on each branch and communicate with both SCU100 and SCU200 control units. They can be easily mounted and, despite their small size, deliver exceptional performance and are capable of monitoring AC, DC and mixed (TRMS) currents up to 160 A, including harmonic components.

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 current sensors to your installation by selecting from up to four different mounting options, depending on the specific application, to help ensure a simple, 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 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-121DR	CMS-121CA
CMS-122xx (20 A)	CMS-122PS	CMS-122LA		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-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		
Response time (±1%)		[sec]	Type 0.34		
Max. cable diameter		[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		
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		
Response time (±1%)		[sec]	Type 0.25		
Max. cable diameter		[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.

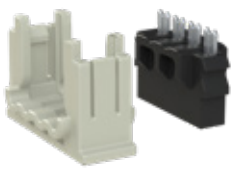
SOLID-CORE SENSORS 25 MM

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		
Response time (±1 %)		[sec]	Type 0.25		
Max. cable diameter		[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 lengths (2, 5, 10 and 30 m). These devices can be placed at customizable distances as needed for the specific application.



THREE-PHASE DIRECT ENERGY METERS

Technical features

	Three-phase direct B23	
Energy meters		
Material	Polycarbonate in transparent front glass. Glass-reinforced polycarbonate in bottom case and upper case. Polycarbonate in terminal cover.	
Accuracy		
Active energy	Cl.1 (Class B)	
Reactive energy	Cl.2	
Voltage/current inputs		
Protection fuse/MCB	65 A MCB, C characteristic or 65 A fuse type gL–gG	
Nominal voltage	3x 230/400 V AC	
Voltage range	3x 220–240 VAC (-20% to +15%)	
Power consumption (240 V — measurement+comm+backlight)	1.24 W	
Base current Ib	5 A	
Reference current Iref	5 A	
Transitional current Itr	0.5 A	
Nominal current	5 A	
Maximum current Imax	65 A	
Minimum current Imin	0.25 A	
Starting current Ist	< 20 mA	
Frequency	50/60 Hz ±5%	
Meter constant	1.000 imp/kWh	
Wiring options	3-phase, 4-wire	
	3-phase, 3-wire	
	1-phase (line 1), 2-wire	
Protective class	II	
Overvoltage category	III	
Pollution degree	2	
Rated impulse voltage Uimp	6 kV	
Utilization category (UC)	UC-2	
Terminal characteristics		
Line terminals	Min. wire cross section	1 mm²
	Max. wire cross section	25 mm²
	Screw head	PZ2
	Tightening torque	3 Nm
	Wire stripping length	13 mm
Neutral terminal	Min. wire cross section	1 mm²
	Max. wire cross section	25 mm²
	Screw head	PZ2
	Tightening torque	3 Nm
	Wire stripping length	13 mm

Three-phase direct energy meters
Technical features

	Three-phase direct B23	
Terminal characteristics		
Communication and I/O terminals	Min. wire cross section	0.5 mm²
	Max. wire cross section	1 mm²
	Screw head	Slotted screw
	Tightening torque	0.25 Nm
	Wire stripping length	6 mm
Climatic conditions		
Operating temperature	-40°C to +70°C	
Storage temperature	-40°C to +85°C	
Environmental conditions, operation	Indoor with extended operating temperature; dry locations	
Altitude	2000 m	
Humidity	75% yearly average, 95% on 30 days/year	
Resistance to fire and heat	Terminal 960°C, cover 650°C (IEC 60695-2-1) – UL V0	
Resistance to water and dust	IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529	
Mechanical environment	Class M2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU)	
Electromagnetic environment	Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU)	
User interface		
Access to device	3 pushbuttons	
Display type	Single-line LCD	
Display dimensions	Fixed backlight	
Number of digits counter 1	32 x 22.5 mm, 1.8" as diagonal	
Number of digits counter 2	7 digits	
I/O	–	
Digital output		
Number of outputs	2 (optional)	
Current	2–100 mA	
Voltage	5–240 V AC/DC (for meters with only 1 output: 5–40 V DC)	
Pulse output frequency	Programmable 1–999,999 imp/kWh	
Pulse length	10–990 ms	
Digital input		
Number of inputs	2 (optional)	
Max. voltage (absolute rating)	0–240 V AC/DC	
Off state voltage	0–5 V AC/DC	
ON state voltage	57–240 V AC/24–240 V DC	
Min. pulse length and pulse pause	30 ms	
Communication protocol		
M-Bus		
Baud rate	300, 600, 1200, 2400, 4800, 9600, 19200, 38400	
Address	1–250	
Access level	Open, open with password, close	
Modbus RTU		
Baud rate	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	
Parity	Odd, even, none	
Address	1-247	

Three-phase direct energy meters

Technical features

	Three-phase direct B23
Pulse LED	
Pulse frequency	1000 imp/kWh
Pulse length	40 ms
Terminal characteristics	
EMC compatibility	
Impulse voltage test	6 kV 1.2/50 µs (IEC 60060-1)
Surge voltage test	4 kV 1.2/50 µs (IEC 61000-4-5)
Fast transient burst test	4 kV (IEC 61000-4-4)
Immunity to electromagnetic HF-fields	80 MHz–2 GHz at 10 V/m (IEC 61000-4-3)
Immunity to conducted disturbance	150 kHz–80 MHz, (IEC 61000-4-6)
Immunity to electromagnetic disturbances	2–150 kHz for kWh-meters
Radio frequency emission	EN 55022, class B (CISPR22)
Electrostatic discharge	15 kV (IEC 61000-4-2)

Three-phase direct energy meters

Product codes

THREE-PHASE ELECTRICITY METER, 4 DIN WITH IR PORT, 65 A, 3 X 230/400 V AC

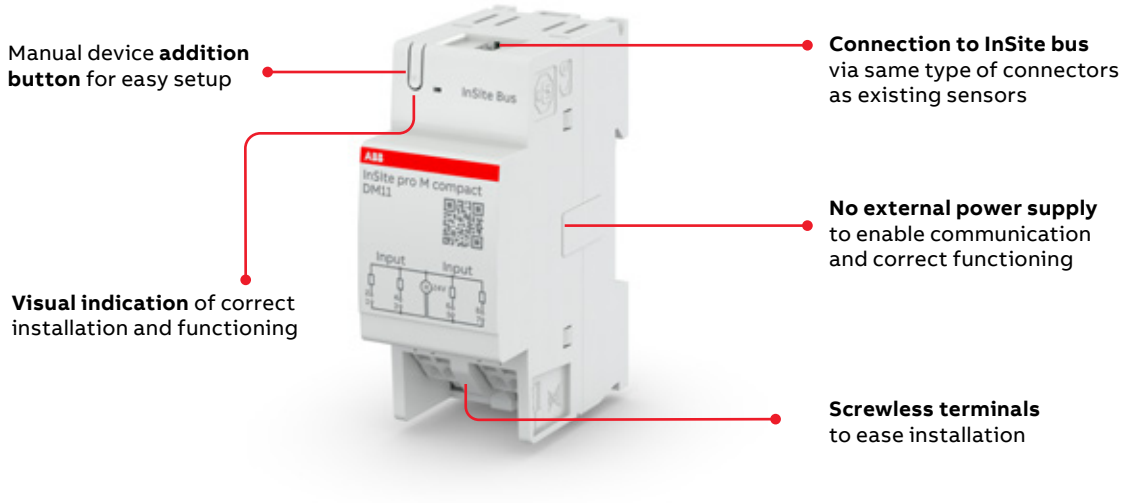
Class B (Cl. 1) (Reactive Cl. 2) with functionality level Silver.
Active and reactive energy, import/export, tariffs 1–4, tariff control via inputs and communication.

Communication protocol	Certif.	I/O	Energy accuracy	Bbn 7392696 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
-	MID	2 dig. input 2 dig. output	Cl.B (Cl.1) – Active Cl. 2 – Reactive	001687	B23 311-100	2CMA100168R1000	0.330	1
Modbus RTU	MID	2 dig input 2 dig. output	Cl.B (Cl.1) – Active Cl. 2 – Reactive	001694	B23 312-100	2CMA100169R1000	0.340	1
Mbus	MID	2 dig input 2 dig. output	Cl.B (Cl.1) – Active Cl. 2 – Reactive	001700	B23 313-100	2CMA100170R1000	0.350	1

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 utility 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 four input signals; DM11, which generates four output signals; and DM10, featuring four ports of two input signals and two 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 consumption, the output modules can generate signals on demand to control loads or activate or deactivate lines.



Parameter	DM11 — input module	DM00 — output module	DM10 — input/ output module
Number of digital channels	4 input	4 output	2 input + 2 output
Supply voltage	7–9.5 V DC (from Insite bus)	7–9.5 V DC (from Insite bus)	7–9.5 V DC (from Insite bus)
Current consumption	Max. 73 mA	Max. 34 mA	Max. 63 mA
Input voltage*	22–26 V DC	n/a	22–26 V DC
Input current**	4 mA	n/a	4 mA
Communication circuit	1 Insite bus port (RS485)	2 Insite bus ports (RS485)	3 Insite bus ports (RS485)
Output type	n/a	Relay output	Relay output
Output ratings	n/a	2.5 A 240 V AC/30 V DC	2.5 A 240 V AC/30 V DC
Output current	n/a	5 mA → 2.5 A (max. 4.5 A <5 s)	5 mA → 2.5 A (max. 4.5 A <5 s)
Pulse minimum duration	5 ms	n/a	5 ms
Pulse frequency	100 Hz	n/a	100 Hz
Screwless terminal cross-section	0.08–2.5 mm²	0.08–2.5 mm²	0.08–2.5 mm²
Using ferrules	0.25–1.5 mm²	0.25–1.5 mm²	0.25–1.5 mm²

Parameter	DM11 — input module	DM00 — output module	DM10 — input/ output module
Operating temperature	-25…+60°C	-25…+60°C	-25…+60°C
Storage temperature	-40…+85°C	-40…+85°C	-40…+85°C
Equipment mobility	Built-in, DIN rail	Built-in, DIN rail	Built-in, DIN rail
Mounting method	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail
Mass of equipment	0.075 kg	0.085 kg	0.080 kg
Dimensions (W×D×H)	36 × 88 × 65 mm	36 × 88 × 65 mm	36 × 88 × 65 mm
Overvoltage category	II	II	II
Pollution degree	2	2	2
Enclosure type	Open type	Open type	Open type
Marked degree of protection	IP20 (not UL evaluated)	IP20 (not UL evaluated)	IP20 (not UL evaluated)
UL50/50E type rating	Open type	Open type	Open type
Means of protection	Class III	Class III	Class III
Environmental conditions	Extended	Extended	Extended
Humidity	5–90% RH	5–90% RH	5–90% RH
Altitude	2000 m	2000 m	2000 m
For use in wet locations	No	No	No
Operating conditions	Continuous	Continuous	Continuous
Standards compliance	IEC 61010-1, IEC 61326-1 UL 61010-1	IEC 61010-1, IEC 61326-1 UL 61010-1	IEC 61010-1, IEC 61326-1 UL 61010-1
Safety class	IP20	IP20	IP20
IK code	IK06	IK06	IK06

*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 80–100 A	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	[V DC]	Passive device
	Connection		InSite bus and Ethernet
	Mounting method		35 mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	17.5 x 87.0 x 64.9 (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]	7 V (min.) –9.5 V (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)

POWER SUPPLY FOR SCU200 AND SCU200-W

24 V DC power supply options

Power supply (24 V DC)
The SCU200 can be powered by a 24 V DC supply. The 24 V DC source can be:
- An existing, customer-provided 24 V DC supply, or
- A dedicated ABB power supply from the ABB portfolio

Important: The maximum power input for the SCU200 is 17 W through the DC plug.

Power supply	Product code	Applications
CP-D 24/0.42	1SVR427041R0000	Up to 10 W
CP-D 24/1.3	1SVR427043R0100	Up to 30 W

CP-D modular power supplies

CP-D 24/0.42

2CDC 271 025 F0007

CP-D 24/1.3

Description
The CP-D range of modular power supply units in modular DIN rail component MDRC (MDRC) design is ideally suited for installation in distribution panels. The two models that are suitable for use as power supplies for the SCU200 have output voltage of 24 V DC at output currents of 0.42 A or 1.3 A. Thanks to their high thermal efficiency, these power supplies have very low power and heat dissipation and can be operated without forced cooling. All power supply units in the CP-D range are approved according to all relevant international standards.

ORDERING DETAILS

Input voltage range	Rated output voltage/ current	Type	Order code	Weight (1 pc.) kg (lb)
90–264 V AC/120–375 V DC	24 V DC/0.42 A	CP-D 24/0.42	1SVR427041R0000	0.06 (0.13)
90–264 V AC/120–375 V DC	24 V DC/1.3 A	CP-D 24/1.3	1SVR427043R0100	0.19 (0.41)

Power supply for SCU200 and SCU200-W

CP-D technical data

Data at T_a = 25°C, U_{in} = 230 V AC and rated values, unless otherwise indicated

Type			CP-D 24/0.42	CP-D 24/1.3
Input circuit — supply circuit				**L, N**
Rated input voltage U_{in}				100–240 V AC
Input voltage range				90–264 V AC /120–375 V DC
Frequency range AC				47-63 Hz
Typical input current / typical power consumption		at 115 V AC	184 mA/11.62 W	600 mA/37.92 W
		at 230 V AC	120.6 mA/12 W	344 mA/38.16 W
Inrush current		at 115 / 230 V AC	max. 16 A/32 A	max. 25 A/50 A
Power failure buffering time				min. 30 ms
Internal input fuse			1 A slow-acting / 250 V AC	2 A slow-acting/250 V AC
Power factor correction (PFC)				No
Indication of operational states				
Output voltage		DC ON: green LED		⎍: output voltage applied
		DC LOW: red LED		⎍: output voltage too low
Output circuit				**+, -**
Rated output voltage				24 V DC
Tolerance of the output voltage				±1%
Adjustment range of the output voltage		OUTPUT adjust	—	24–28 V DC
Rated output power			10 W	30 W
Rated output current I_r			$T_a \leq 60°C$: 0.42 A	$T_a \leq 60°C$: 1.3 A
Derating of the output current			60°C < $T_a \leq$ 70°C: 2.5 %/°C	60°C < $T_a \leq$ 70°C: 2.5 %/°C
Maximum deviation with	load change statical			max. 1%
	change of output voltage within the input voltage range			max. 1%
Recover time T_A				< 1 ms
Starting time after applying the supply voltage		at I_r		1000 ms
Rise time		at rated load		typ. 1 ms
Residual ripple and switching peaks		BW = 20 MHz		50 mV
Parallel connection				yes, using CP-D RU
Series connection				yes, to increase voltage
Resistance to reverse feed				35 V/1 s
Output circuit — No-load, overload and short-circuit behavior				
Characteristic curve of output			hiccup mode	U/I characteristic curve
Short-circuit protection				Continuous short-circuit stability
Short-circuit behavior				Continuation with output power limiting
Current limiting at short circuit			typ. 0.78 A	typ. 4.2 A
Overload protection				Output power limiting
Overvoltage protection				30–33 V DC
No-load protection				Continuous no-load stability
Starting of capacitive loads				Unlimited
General data				
Efficiency			typ. 80%	typ. 83%
Duty cycle				100%
Dimensions				See “Dimensional drawings”
Weight (1 pc.)		kg (lb)	0.06 (0.13)	0.19 (0.41)
Material of housing				Plastic
Mounting				DIN rail (IEC/EN 60715), snap-on mounting without any tools
Mounting position				Horizontal
Minimum distance to other units		horizontal/vertical		25 mm/25 mm (0.98 in/0.98 in)
Degree of protection		housing/terminals		IP20/IP20
Protection class				II

Power supply for SCU200 and SCU200-W

CP-D technical data

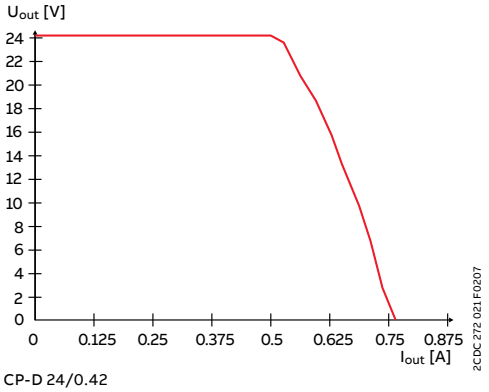
Data at T_a = 25 °C, U_{in} = 230 V AC and rated values, unless otherwise indicated

Type			CP-D 24/0.42	CP-D 24/1.3
Electrical connection — input circuit/output circuit				
Connecting capacity		fine-strand with wire end ferrule	0.2–1.5 mm² (24–16 AWG)	0.2–2.5 mm² (24–14 AWG)
		rigid	0.2-2.5 mm² (26–12 AWG)	0.2-2.5 mm² (24–12 AWG)
Stripping length				4–5 mm (0.16–0.2 in)
Tightening torque				0.6 Nm (5 lb.in)
Environmental data				
Ambient temperature range		operation		-40…+70°C
		rated load		-40…+60°C
		storage		-40…+85°C
Altitude during operation		IEC/EN 60068-2-13		max. 4850 m
Damp heat (cyclic) (IEC/EN 60068-2-30)				4 x 24 cycles, 40°C, 95 % RH
Vibration (sinusoidal) (IEC/EN 60068-2-6)				50 m/s², 10 Hz–2 kHz
Shock (half-sine) (IEC/EN 60068-2-27)				40 m/s², 22 ms
Isolation data				
Rated insulation voltage U_i		input circuit/output circuit		3 kV AC
Pollution degree				2
Overvoltage category				II
Standards/directives				
Standards				IEC/EN 62368-1
Low Voltage Directive				2014/35/EU
EMC Directive				2014/30/EU
RoHS Directive				2011/65/EU
Protective low voltage				SELV (IEC 60950-1)
Electromagnetic compatibility				
Interference immunity to				IEC/EN 61000-6-2
	electrostatic discharge	IEC/EN 61000-4-2	level 4 (4 kV/8 kV)	level 4 (4 kV/15 kV)
	radiated, radio-frequency, electromagnetic field	IEC/EN 61000-4-3		level 3 (10 V/m)
	electrical fast transient/burst	IEC/EN 61000-4-4		level 4 (4 kV)
	surge	IEC/EN 61000-4-5		level 3 (2 kV L-L)
	conducted disturbances, induced by radio-frequency fields	IEC/EN 61000-4-6		level 3 (10 V)
Interference emission				IEC/EN 61000-6-3
	high-frequency radiated			class B
	high-frequency conducted			class B

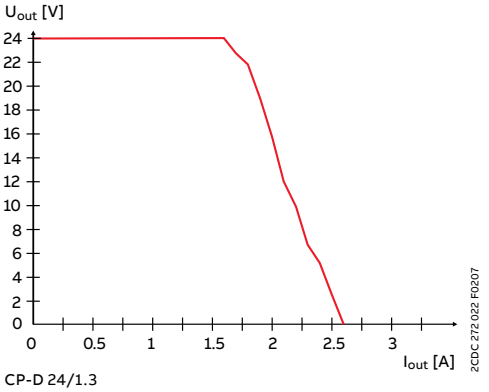
Power supply for SCU200 and SCU200-W

CP-D technical diagrams

CHARACTERISTIC CURVE OF OUTPUT AT T_A = 25 °C



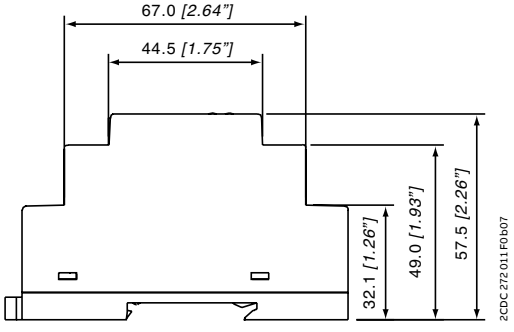
CP-D 24/0.42



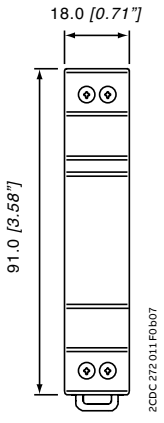
CP-D 24/1.3

DIMENSIONAL DRAWINGS

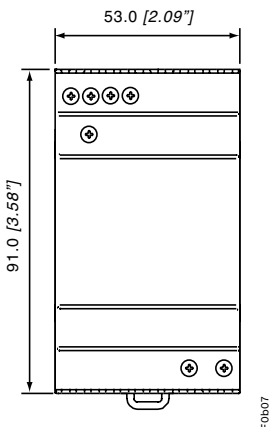
Dimensions in mm and inches



CP-D 24/0.42
CP-D 24/1.3



CP-D 24/0.42



CP-D 24/1.3

Power supply for SCU200 and SCU200-W

CP-D certifications and approvals

Mark		ABS	ATEX	cULus LISTED	cURus	CE	UKCA	DNV	RCM
Abbreviation		**ABS**	**ATEX**	**cULus**	**cURus**	**CE**	**UKCA**	**DNV**	**RCM**
Approved in		**US**		**North America**	**North America**	**Europe**	**UK**	**Norway**	**Australia New Zealand**
CP-D	CP-D 24/0.42 CP-D 24/1.3			■ E174460	■ E196145 E313203	■	■		■

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					
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
Metering, expansion and communication modules for SCU200					
Energy meter module, 5 A	681359	INS-E3-5	2CMA268055R1000	0.052	1
Flat cable connection accessories					
Flat cable, 2 m	519803	INS102	2CCG001491R0001	0.017	1
Flat cable, 5 m	508111	INS105	2CCG000243R0001	0.046	1
Flat cable, 10 m	519810	INS110	2CCG001493R0001	0.090	1
Flat cable, 30 m	519827	INS130	2CCG001494R0001	0.270	1
Connector set (35 pcs.)	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

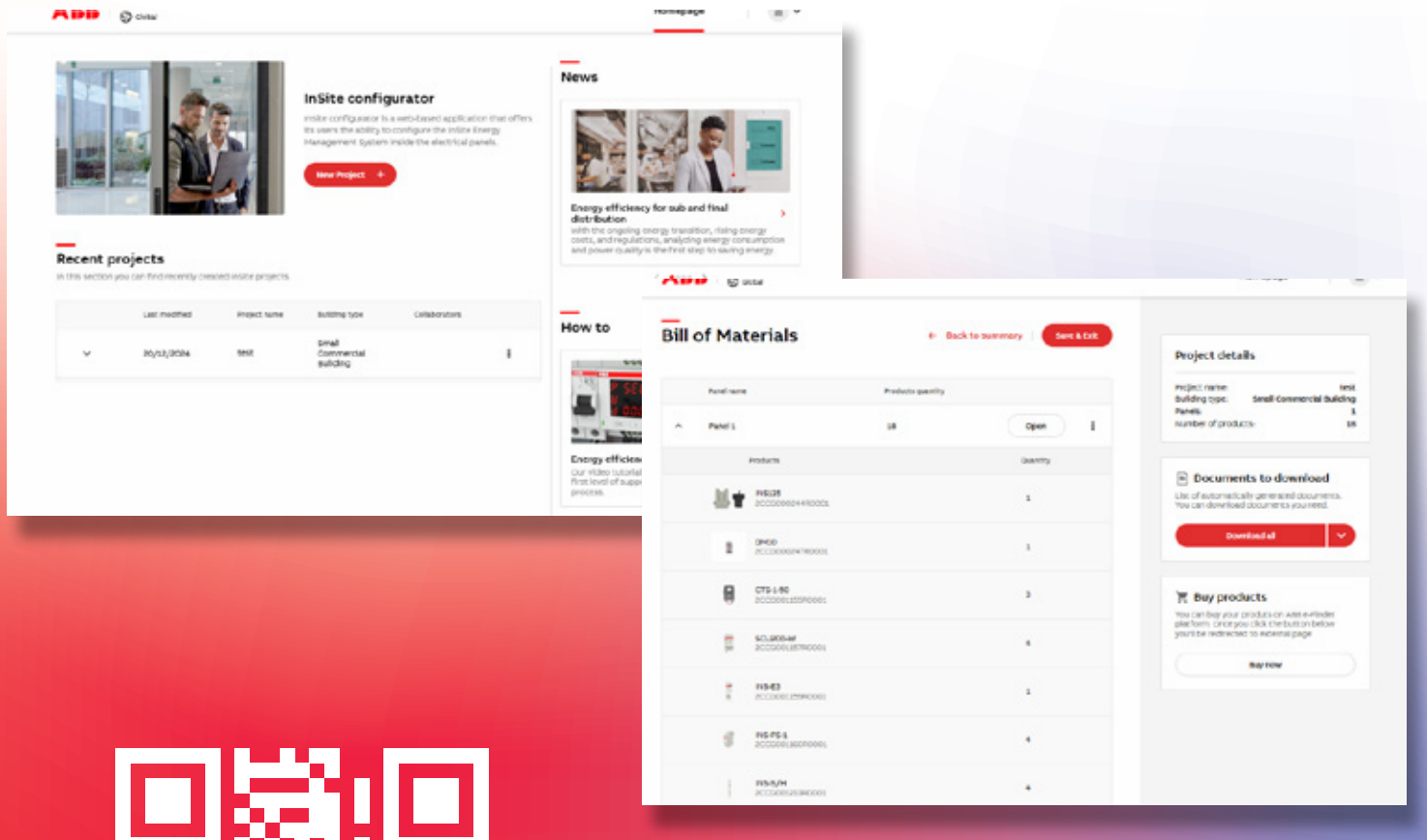
CMS-200DR

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 Inc.
ABB Electrification
Smart Buildings Division

solutions.abb/energyefficiencydevices

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