apra gruppe



EMI One

Cabinet Control System

Intuitive ✓ Efficient ✓ Cost-Effective ✓

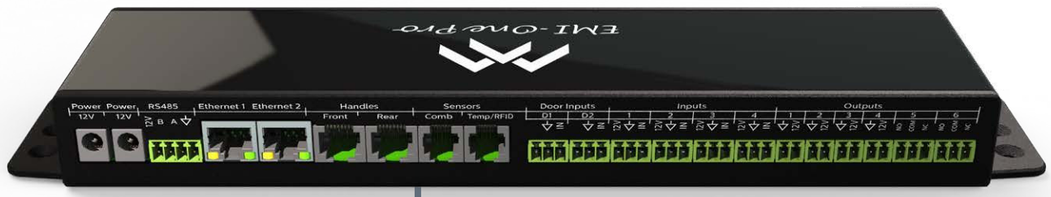
apra-gruppe - your partner in data center solutions

No one understands your IT and data processing needs better than you. That's why we offer a free, no-obligation consultation at your location. To assess your requirements, including capacity, number of cabinets, cabinet monitoring, climate control, power distribution, cable management and accessories.

As a provider of comprehensive services for micro data centers and full-scale data centers, we support you with our expertise and reliability – from planning and installation to after-sales service. Your satisfaction is our priority







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EMI-One PRO
environmental
monitoring

THE EMI-ONE PRO



EMI-One PRO

PN 925-303-00

The **EMI-One PRO** controller is a compact and robust device designed to provide **secure, centralized control** over both **access management** and **environmental monitoring as well as power data aggregation** within server and industrial cabinets.

Engineered for management of single cabinets which ensures system scalability, reliability on the highest level and integration with a DCIM grade systems such as the **EMI Connect management software.**

With support for remote access, real-time alerts, and centralized logging, this device helps to maintain compliance, operational efficiency, and asset integrity across critical data center infrastructure.

Description

- Control, configuration and reading of the device's settings by a transparent interface through a web browser (built-in web-server),
- 2 Ethernet interfaces (2x1Gbit with separate, independent MACs) for connection redundancy,
- Dual DC power sockets and additionally PoE+ support for connecting controller up to 3 independent sources for power redundancy,
- 4x separate 12V output channels
- 6x independent digital inputs enabling the usage of two-state sensors,
- 2x potential-free relay outputs of NO/NC type that allow connecting devices that require higher power,
- Possibility to connect up to 10 digital sensors. Each sensor can have its unique address and label assigned via web-interface of the controller,
- Support of intelligent PDUs in scope of data aggregation,
- Extended, fully customizable alarm section that can be triggered depending on the input states and amp; values measured from devices connected to the controller:
- dynamic rules system that enables automatic control for configured outputs depending on the input state or measured values,
- 2x dedicated sockets for connecting electronic handles from the apra EMI-Lock family, and from other, external manufacturers, also with built-in RFID readers
- Access control functionality:
  - > RFID transponder readers (both external and built inside electronic handles),
  - > external LCD touch panels (with authentication via PIN code)
  - > remote access & control
  - > multi-level security configuration for user accounts (different permission levels, PoLP)
- The EMI-One PRO controller is compliant with the NIS2 directive for access control systems in scope of:
  - > Encrypted data exchange on whole communication line (card/token-reader-controller-server),
  - > Support of data encryption mechanisms such as AES-128,
  - > Support of safe data exchange via the OSDPv2 protocol,
  - > 2-factor authentication (2FA) (via PIN code and RFID tag readout),
  - > 2-stage authorisation (via readout of different 2 different RFID cards one after another),
- 2x USB sockets that allow integration with camera system (which captures images every time authorisation is attempted),
- Dedicated microSD card slot enabling event log backup on an external memory device,
- All settings, measurement data and amp; event log saved in the controller's built-in non-volatile memory (up to 100k events),
- REST API OAS 3.0 (OpenAPI Specification) for easy integration with 3rd party services
- Support of encrypted e-mail notifications,
- Support of the SNMP v2c and v3 protocol with Trap notifications,
- Support od SMS and e-mail notifications via GSM (additional module required),
- Built-in acoustic indicator and LED diodes informing about the device's status,
- Dedicated EMI-Connect software that enables management of multiple devices and allowing long-term data saving and parameter analysis.

Multiple secure protocols over dual Gigabit Ethernet connectivity

API {REST} · SSH · MQTT · MODBUS/TCP · SNMPv3

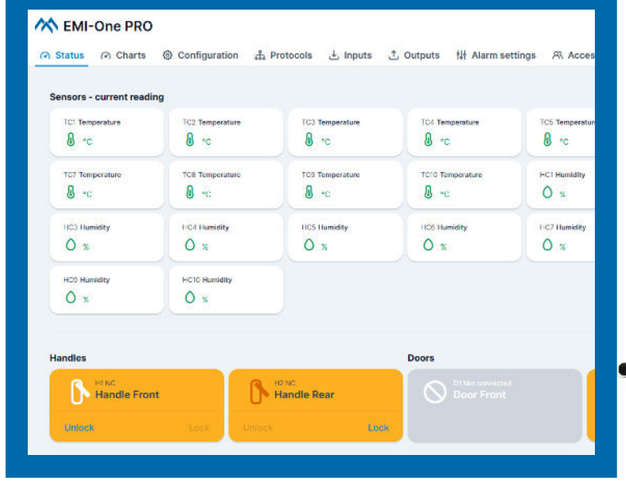
Reduntant power supply 2x PSU + PoE

Wide integration capabilities with two-state analogue sensors

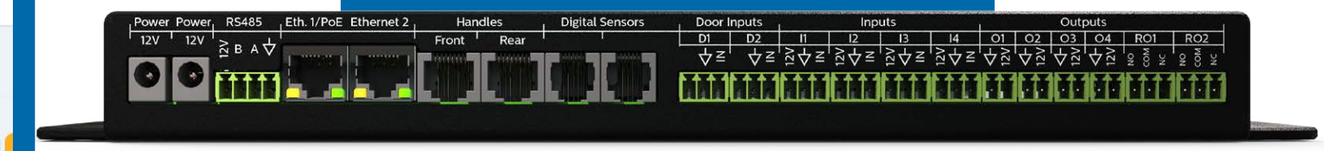
Dedicated door contact inputs

Relay-based outputs for devices requiring higher power

AC



EMI-One PRO controller



Dedicated display module support

LCD

Support of dedicated fan-based ventilation control unit

Aggregation of electrical parameters from PDUs via IP or modbus protocol

Electronic handles support

Wide range of supported digital sensors

12 V power outputs

Power	230 V AC / 12 V DC module (12 V / 30 W PSU included)
Power over Ethernet	PoE+, up to 25 W, 802.3at compliant
Power consumption	typ. 150 mA, max. 2 A
Electrical connectors	2x DC Jack, 2x RJ12, 4x RJ45, 1x TBW-4, 8x TBW-3, 4x TBW-2
Supported protocols	IPv4, IPv6, DHCP, DNS, HTTP, HTTPS (TLS v1.3), REST API, SNMP v2c/v3, NTP, SMTP, SMTPS (Secure SMTP over TLS), SSH, Modbus TCP over TLS, LDAP, SYSLOG, SNTP, MQTT, OSDPv2
Ethernet	2x 10/100/1000 Base-TX (with separate, dual MACs)
USB	2x USB 2.0
Event log capacity	Up to 100 000 entries
User count capacity	Up to 1000 individual accounts with 6 access levels (PoLP)
External memory	MicroSD flash card support up to 32GB
Relay outputs	2x mono-stable relays rated 30 V DC at nominal load of 5 A
Working temperature	From 0°C to 60°C
Acceptable humidity range	From 10% to 90% (non-condensing)
Dimensions	311 x 70 x 31 mm



EMI-One SE
environmental
monitoring



EMI-One SE

PN 925-301-00

The EMI-One Second **E**dition is a controller dedicated for the use inside cabinets, which combines the following, main functionalities:

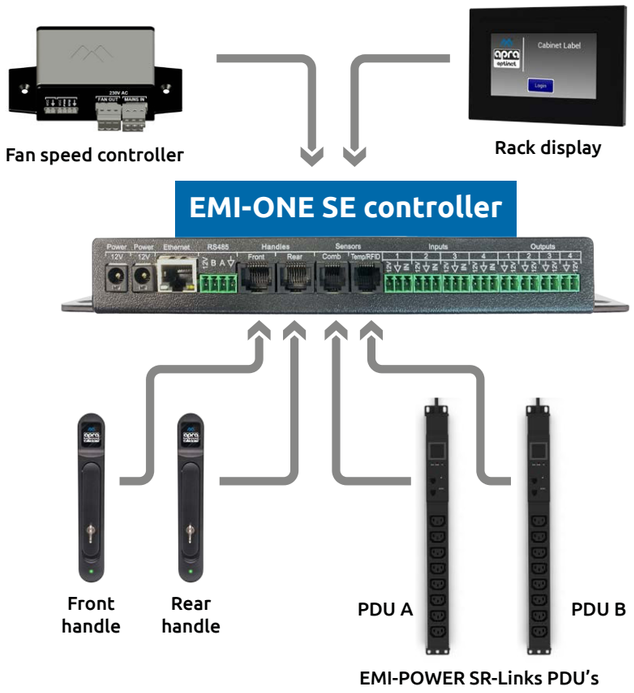
- Environment
- Electricity monitoring
- Access control

A largely expanded section of alarms and rules combined with a wide section of supported accessories and sensors make it possible to adapt to individual needs.

Key features:

- 2 Power sockets for connecting the EMI device to 2 independent sources for power redundancy,
- 4 independent 12 V output channels for steering terminal equipment e.g. sliding doors, ceiling light or ventilation system
- 4 independent digital inputs with additional parametric function, enabling the usage of e.g. fire sensors, gas sensors, flood sensors, motion sensors, power failure etc.
- Possibility to connect up to 2 digital sensors of the following types: max. 2 Combo Hi. Acc. sensors, max. 2 temperature sensors and max. 1 pressure sensor (measurement in 2 different places inside a cabinet)
- 2 dedicated handle sockets for connecting electronic handles from the apra EMI-Lock family, EMKA Agent E and handles from other, external manufacturers,
- Access control function – support of RFID (cards, keychains etc.) in the following standards and protocols: Apra: UNIQUE, MIFARE, HID/LEGIC and Wiegand 26- up to 37-bit
- Support of EMI-POWER SR-Link PDUs by power measurement data aggregation
- Extended section of alarms triggered by the input state or a certain temperature/humidity value
- Supported protocols: ARP, DNS, HTTP, HTTPS, SNMP v1/v2c, SNTP, SMTP
- Support od SMS and e-mail notifications via GSM (additional notification module required 925-409-00)
- Wide variety of accessories compatible within the EMI-One SE system
- Easy integration with 3rd party devices

Whether you need to secure or keep record on the environment, in which your devices operate, the EMI-One SE / EMI-One PRO controller delivers robust performance and adaptability for modern data centers and more!



EMI-One family
environmental
monitoring

DIGITAL SENSORS

Possible to connect up to 2 sensors.



Temperature sensor

PN 925-410-00

- Allows to monitor temperature inside cabinets, rooms with network equipment, warehouses etc.
- Multiple sensors can be connected in daisy-chain-configuration
- Working temperature from -55°C up to +125°C
- ± 0.5% accuracy level for temperature measurement in a range from -10°C up to +85°C
- 2.5 m standard cable length

Pressure sensor (high accuracy)

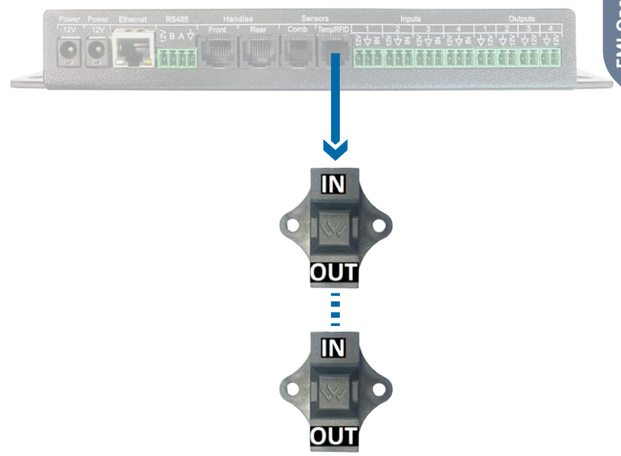
PN 925-462-00

- Allows to monitor temperature and humidity levels inside cabinets, rooms with network equipment, warehouses etc.
- Multiple sensors can be connected in daisy-chain-configuration
- Working conditions for: -40°C up to +125°C and 0 up to 100% relative humidity
- ± 0.1% accuracy level for temperature measurement in a range from 20°C up to +60°C
- ±1.5% accuracy level for humidity measurement in a range from 0% up to 80%
- Measurement drift: ± 0.3°C / year for temperature and < 0.25% / year for humidity
- 2.5 m standard cable length

Combo sensor (high accuracy)

PN 925-374-00

- Allows to monitor temperature and humidity levels inside cabinets, rooms with network equipment, warehouses etc.
- Multiple sensors can be connected in daisy-chain-configuration
- Working conditions for: -40°C up to +125°C and 0 up to 100% relative humidity
- ± 0.1% accuracy level for temperature measurement in a range from 20°C up to +60°C
- ±1.5% accuracy level for humidity measurement in a range from 0% up to 80%
- Measurement drift: ± 0.3°C / year for temperature and < 0.25% / year for humidity
- 2.5 m standard cable length



OTHER ACCESSORIES



Buffered power supply

PN 925-401-00

- Allows uninterrupted operation of the EMI-One SE / EMI-One PRO system
- 12 V / 25 W output power
- 2.6Ah battery capacity
- Replaceable Li-Ion battery, type 18650
- 1 m power cord length

GSM + LTE module

PN 925-409-00

- Extends the ability of the EMI-One SE / EMI-One PRO system to send encrypted text and email notifications
- Support of multiple EMI-One SE / EMI-One PRO devices working in a the same subnet,
- Supported protocols: ARP, DNS, DHCP, SSH, HTTP, HTTPS, SNMP, SNTP, SMTP
- Supported GSM frequency bandwidth: 850/900/1800/1900MHz

ANALOGUE (TWO-STATE) SENSORS

Possible to connect up to 4 sensors.



Fire sensor

PN 925-368-00

- It is intended to detect fire hazard at an early stage – the device supports several operation modes (smoke, heat, multisensor)
- Smoke detection compliant with PN-EN 54-7 standard
- Heat detection compliant with PN-EN 54-5 standard
- 2.5 m standard cable length



Conductive fluid sensing cable

PN 925-400-00

- It is intended to expand the flood sensor (925-369-00) detection range by an additional area
- 50 m max. cable length
- 1 m standard cable length (desired cable length is set individually)



Flood sensor

PN 925-369-00

- It is intended for use in areas where risk of leakage from a water system, air conditioners can occur
- Detection area can be expanded with additional accessories an external probe (925-461-00) or conducting fluid sensig cable (925-400-00)
- Detection probes can be set up to 35 mm
- Additional acoustic indication
- 2.5 m standard cable length



Flood sensor additional probe

PN 925-461-00

- It is intended to expand the flood sensor (925-369-00) detection range by an additional detection point
- 2.5 m standard cable length



Door contact

PN 925-364-00 (White colour)

PN 925-459-00 (Black colour)

- It is designed to monitor the position (opening status) of doors, side panels, roofs, windows, etc.
- Contact activation threshold less than 20mm
- Supports End Of Line (EOL) tampering detection
- Can be additionally equipped with not
- 2.5 m standard cable length



Light sensor

PN 925-389-00

- It is designed to monitor insufficient light intensity
- Supports 3 operation modes (energy-efficiency, standard, high luminescence) for optimized system power consumption
- Activation threshold can be set form 1 up to 1000 lx
- Adjustment range for activation threshold at: 1...10...100...1000 lx
- Maximum delay time below 1 minute
- 2.5 m standard cable length



CO_2 sensor

PN 925-391-00

- It is intended to detect dangerous concentration levels of carbon dioxide in rooms with air conditioners, refrigeration counters, and cooling units that use carbon dioxide as a refrigerant,
- Configurable alarm threshold (800/1400/1800 ppm CO_2) – 1400 ppm by default
- Additional acoustic indication
- Up to 15 years sensor durability when operating in clean air conditions
- 2.5 m standard cable length



CO sensor

PN 925-392-00

- It is intended to detect dangerous concentration levels of carbon monoxide and methane
- Carbon monoxide (CO) detection compliant with PN-EN 50291-1
- Methane (CH_4) detection compliant with PN-EN 50194-1
- Additional acoustic indication
- Up to 15 years sensor durability when operating in clean air conditions
- 2.5 m standard cable length



Air pollution sensor

PN 925-420-00

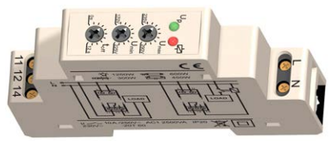
- It is designed for measurement of the concentration of aerosols near to the sensor.
- Particulate amount measurement of PM0.5, PM1.0, PM2.5, PM4 and PM10
- Accuracy level of ±10 µg/m3 for PM2.5 particulate weight measurement in a range from 0 up to 100 µg/m^3 and ±10% in a range from 100 up to 1000 µg/m^3
- Particulate amount measurement range 0 up to 3000 pcs/cm^3
- Measurement resolution 1 µg/cm^3
- Up to 8 years sensor durability in continuous operation mode
- 2.5 m standard cable length



PIR motion detector

PN 925-402-00

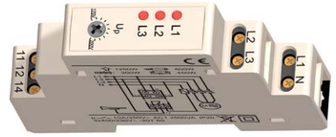
- allows detection of motion in the protected area
- Supports End Of Line (EOL) tampering detection
- Digital temperature compensation
- Selectable detection sensitivity
- 18 m maximal detection range
- Pet immunity up to 15 kg
- 2.5 m standard cable length



Power supply detector 1-Phase

PN 925-377-00

- It is designed to monitor under- and overvoltage events in 1-phase power network
- Undervoltage alarm threshold setting in a range from 170 up to 225 V
- Overvoltage alarm threshold setting in a range from 235 up to 290 V
- Configurable shutdown time setting from 0 up to 12 s
- 2.5 m standard cable length



Power supply detector 3-Phase

PN 925-378-00

- It is designed to monitor under- and overvoltage events in 3-phase power network
- Undervoltage alarm threshold setting for all phases in a range from 170 up to 200 V
- Shutdown delay 5 up to 10 s
- Turn off delay 1 up to 5 s
- 2.5 m standard cable length

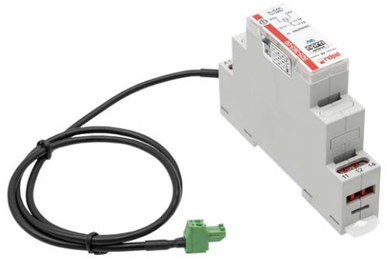


Vibration detector

PN 925-403-00

- allows detection of vibrations due to sabotage attempts
- Supports End Of Line (EOL) tampering detection
- High sensitivity
- Detection range up to 6 m on walls made of concrete, bricks or steel
- 2.5 m standard cable length

ACTUATORS



Relay 12 V / 250 V DIN

PN 925-363-00

- It is intended to control external devices by the EMI-One SE / EMI-One PRO module
- 16 A maximal switching current
- 250 V switching voltage at power circuit side
- 12 V AC and 12 V DC coil trigger voltage
- 2.5 m standard cable length



Optical indicator (red colour)

PN 925-414-00

- Allows indication of alarms by turning on the red LED lights
- Configurable flash light modes (from steady light up to quick flashing)
- 2.5 m standard cable length



Optical acoustic indicator (red colour)

PN 925-418-00

- Allows indication of alarms by turning on the red LED lights and generating acoustic signal
- Configurable flash light modes and acoustic signal melody
- Up to 120 dB sound intensity level (at 1 m distance)
- 2.5 m standard cable length

EMI-One family environmental monitoring

OTHER ACCESSORIES



1U EMI-One SE / EMI-One PRO shelf

PN 317-990-23 (RAL7035)

PN 317-990-19 (RAL9005)

PN 317-990-29 shelf 19", EMI-One PRO (RAL9005)

PN 317-990-33 shelf 19", EMI-One PRO (RAL7035)

- Allows to organize all components of the EMI-One SE / EMI-One PRO system on a single 1U unit
- Thanks to its unique design, the shelf is equipped with a total number of 25 mounting grips
- Available as standard in RAL7035 and RAL9005
- Other colours available on request



Description for the Shelf:

The shelf is installed by fixing 4 M6 screws to 2 rack bars. As standard, it is mounted at half the height of a cabinet, but if necessary it can be installed at any height. The EMI-One shelf, thanks to its relatively low dimensions can be installed in almost each kind of a 19" cabinet.

In a sample configuration, the EMI-One shelf can be equipped with:

- 1x EMI-One main module with dedicated power supply
- 1x Temperature sensor
- 1x Combo sensor (standard accuracy)
- 1x Relay 12 V / 250 V
- 2x Door contact white, Extension cable
- 1x Rack display 4.3"



RS485 adapter for EMI controller

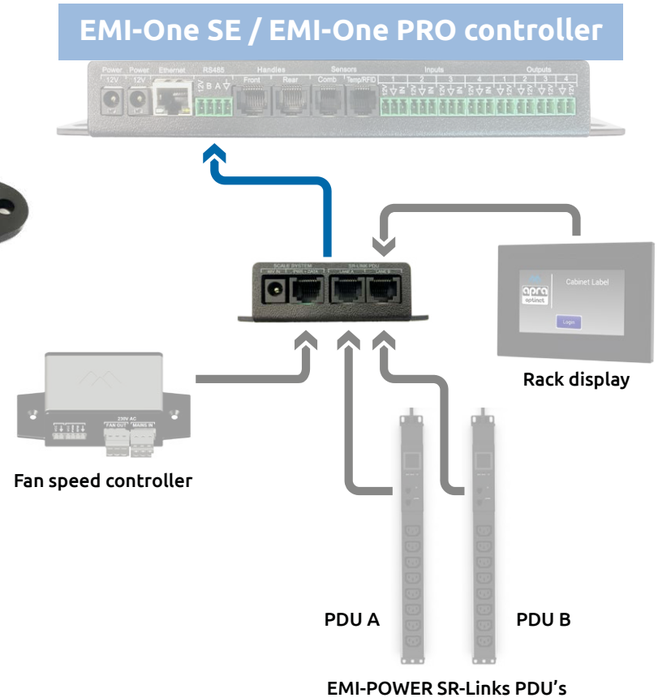
PN 925-431-00

The RS485 adapter for EMI controller extends the **EMI-One SE / EMI-One PRO** system's functionality to connect multiple devices to the RS485 interface of the controller.

The adapter allows to connect the following devices to the EMI controllers:

- Dedicated 4,3 or 7" Rack display module
- 2 EMI-POWER SR Link PDU communication lanes

EMI-One SE / EMI-One PRO controller







Fan speed controller

PN 925-430-00 (AC Fan set)

PN 925-430-10 (DC Fan set)

The Fan speed controller module extends the EMI-One SE / EMI-One PRO system's functionality allowing to optimize the power consumption of ventilation systems in cabinets.

Technical data:

- Regulation range from 0 up to 100%
- DC PWM signal can be set from 12 500 up to 25 000 Hz
- AC powered fan circuit protection via 2 A rated, fast blow fuse

Key features:

- Ventilation system control via EMI-One SE / EMI-One PRO webserver interface
- Efficiency regulation for AC- as well as DC powered fans up to 350 W
- Full isolation between the control circuit and ventilation system
- Additional overcurrent protection for AC fan power output
- Efficiency regulation of DC-powered fans via PWM signal
- Easy to integrate with existing fan-based ventilation systems

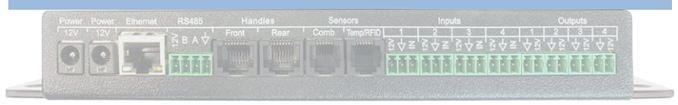
The AC fan set (925-430-00) includes the following:

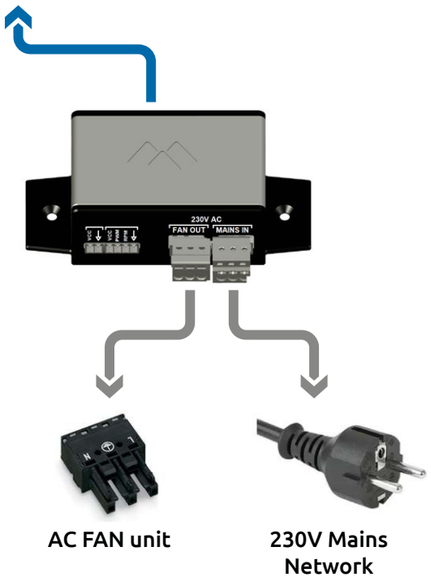
- 1x fan speed controller module
- 0.5 m control signal cable intended to connect with the EMI-One SE / EMI-One PRO controller
- 1.8 m power cord
- 3 m power harness to connect with AC-powered ventilation system

The DC fan set (925-430-10) includes the following:

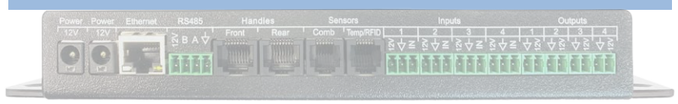
- 1x fan speed controller module
- 0.5 m control signal cable intended to connect with the EMI-One SE / EMI-One PRO controller

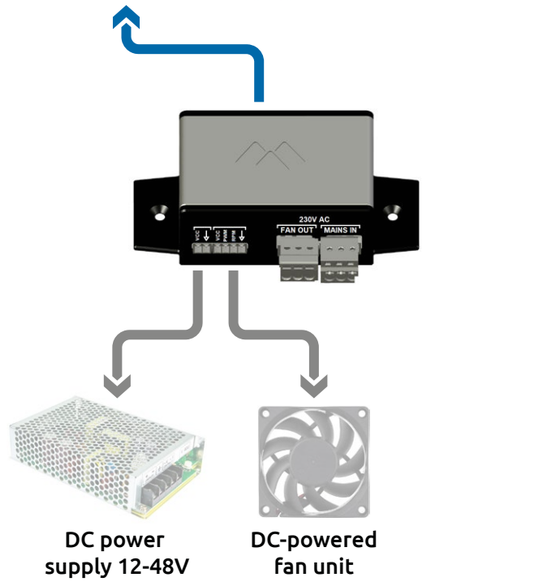
EMI-One SE / EMI-One PRO controller





EMI-One SE / EMI-One PRO controller





EMI-One
family access
control

EMI-LOCK 2.0 HANDLES

A next generation of apra-optinet electronic door handles, available in 6 versions with different functionalities, designed to increase the security of server racks and IT equipment with full flexibility to meet customer requirements.

Main features:

- Future reconfiguration and extension without the need for handle replacement
- Mechanically compatible with the most popular types of mounting holes: 150 x 25 an 200 x 25 mm
- 1-point and 3-point locking system
- Control via the EMI modules or any other system due to support of open protocols
- Opening system based on a servomechanism instead of a coil for electromagnetic interference reduction
- Multiple lock code configuration (also MASTER KEY) possible
- individually configurable access control system, which can easily be integrated into existing infrastructures
- compatible with most cabinet systems
- IP54 protection
- built-in high-quality temperature and humidity sensor

	Type I	Type II	Type III	Type IV	Type V	Type VI
Name	**Mechanical**	**Electronic - system**	**Electronic - system + RFID reader**	**Electronic - stand-alone + RFID reader**	**Electronic - stand-alone + external touch panel display**	**Electronic - stand-alone + external touch panel display + RFID reader**
Description	Standard passive handle, with optional configurable PHZ cylinder.	Built-in electronic controls and servo-mechanism. Can be controlled via the EMI-One module or any other access control system.	Electronics controls and servomechanism with additional built-in RFID transponder reader operating in a wide range of standards, such as: UNIQUE/MIFARE/ HID Proxx, HID iClass, LEGIC depending on the product version). The reader is used for authentication by EMI-One or any other access controller.	Stand-alone handle with access cards memory. Built-in RFID transponder reader operating in a wide range of standards, such as: UNIQUE/ MIFARE/ HID Proxx, HID iClass, LEGIC (depending on the product version). Only the power supply is required for its operation.	Stand-alone system (set) consisting of 2 electronic handles and an external, 4.3" LCD screen with touch panel for convenient management and control. Authentication is based on locally configurable user accounts and assigned PIN codes.	Stand-alone system (set) consisting of 2 electronic handles and an external, 4.3" LCD screen with touch panel for convenient management and control. Authentication is based on locally configurable user accounts and assigned PIN codes and/or RFID transponders.



MECHANICAL

EMI-Lock 2.0 Type I

PN 925-510-00

- Standard, passive handle solution
- Designed for easy upgradability
- optional configurable cylindrical PHZ insert



ELECTRONIC - SYSTEM

A subfamily of handles dedicated for the use within an access control system.



Access options:





EMI-Lock 2.0 Type II

PN 925-520-00

EMI-Lock 2.0 Type IID

PN 925-525-00 built-in display

Electronic handles that include the benefits of mechanical handles and additionally:

- Dedicated for use with EMI-One SE / EMI-One PRO or other access control systems
- Simple to integrate
- Opening control via the EMI-One SE / EMI-One PRO or other system via Wiegand protocol
- Opening system based on a servomechanism instead of a coil for electromagnetic interference reduction
- optional PIN code access via built-in LCD display with touch panel

System access control

Optional built-in LCD

EMI-Lock 2.0 Type III & Type IIID

Electronic handles that include the benefits of mechanical handles and additionally:

- Dedicated for use with EMI-One SE / EMI-One PRO or other access control systems
- Built-in RFID transponder reader operating in a wide range of standards, depending on the product version described in table below
- Control from EMI-One module or any other access control system via open protocols
- Opening system based on a servomechanism instead of a coil for electromagnetic interference reduction
- optional PIN code access via built-in LCD display with touch panel

System access control

Built-in card reader

PN 925-530-00	13.56 Mhz (MIFARE, HID iClass)
PN 925-531-00	125 kHz (UNIQUE, HID Proxx)
PN 925-532-00	13.56 MHz (LEGIC)

PN 925-535-00	13.56 Mhz (MIFARE, HID iClass) built-in display
PN 925-536-00	125 kHz (UNIQUE, HID Proxx) built-in display
PN 925-537-00	13.56 MHz (LEGIC) built-in display

ELECTRONIC – STAND-ALONE

A subfamily of handles dedicated for the use independently of an access control system.

EMI-Lock 2.0 Type IV & Type IVD

Electronic handles that include the benefits of mechanical handles and additionally:

- Dedicated for stand-alone operation
- Built-in RFID access card memory
- Convenient and simple procedure of adding new user cards
- Only a power supply is required for its operation
- Built-in RFID transponder reader operating in a wide range of standards, depending on the product version described in table below

Built-in card reader

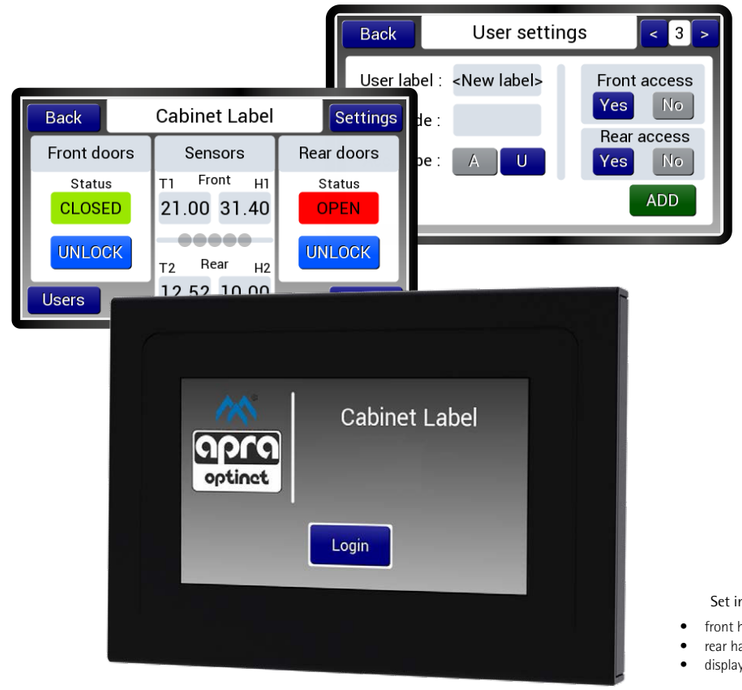
Electronic stand-alone

PN 925-540-00	13.56 Mhz (MIFARE, HID iClass)
PN 925-541-00	125 kHz (UNIQUE, HID Proxx)
PN 925-542-00	13.56 MHz (LEGIC)

PN 925-545-00	13.56 Mhz (MIFARE, HID iClass) built-in display
PN 925-546-00	125 kHz (UNIQUE, HID Proxx) built-in display
PN 925-547-00	3.56 MHz (LEGIC) built-in display

EMI-One family access control





Set includes:

- front handle
- rear handle
- display

EMI-Lock 2.0 Type V (set stand-alone + external 4.3” display)

PN 925-550-00

Electronic handles that include the benefits of mechanical handles and additionally:

- Dedicated for stan-alone operation
- 4.3" external touch panel display that allows to check the handle status, configure settings, user accounts, and access rights as well as browse the system event log
- Authentication based on internal memory of access codes (PIN codes) assigned to custom user accounts
- Only a power supply is required for its operation



Display control Electronic stand-alone

EMI-Lock 2.0 Type VI

Electronic handles that include the benefits of mechanical handles and additionally:

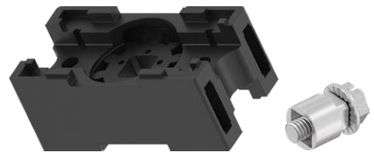
- Dedicated for stan-alone operation
- 4.3" external touch panel display that allows to check the handle status, configure settings, user accounts, and access rights as well as browse the system event log
- Authentication based on internal memory of access codes (PIN codes) and RFID transponder tags assigned to custom user accounts
- Enables two factor authorisation for increased security
- Only a power supply is required for its operation
- Support of the following RFID standards:



Built-in card reader Display control Electronic stand-alone

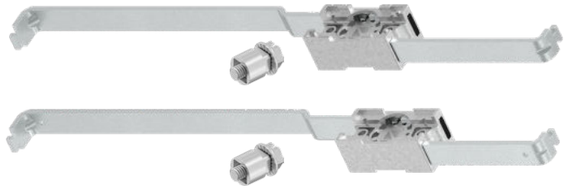
PN 925-560-00	EMI-Lock 2.0 Type VI (stand-alone + external 4.3" display + RFID MIFARE/ HID iClass)
PN 925-561-00	EMI-Lock 2.0 Type VI (stand-alone + external 4.3" display + RFID UNIQUE/HID Proxx)
PN 925-562-00	EMI-Lock 2.0 Type VI (stand-alone + external 4.3" display + RFID LEGIC)

MECHANICAL ACCESSORIES



1-point locking mechanism

PN 925-590-00



3-point locking rod-control mechanism

PN 925-591-00 (cutout 200 mm)

PN 925-592-00 (cutout 150 mm)

3-point locking (SET)

PN 925-593-24	3-point locking set for cabinet 24U
PN 925-593-42	3-point locking set for cabinet 42U
PN 925-593-47	3-point locking set for cabinet 47U
PN 925-593-52	3-point locking set for cabinet 52U





Cylinder locks

PN 925-580-00	Cylindrical PHZ insert APRA
PN 925-581-00	Cylindrical PHZ insert EK333
PN 925-582-00	Cylindrical PHZ insert custom code
PN 925-583-00	Cylindrical PHZ insert secure
PN 925-584-00	Cylindrical PHZ insert blind plug
PN 925-585-00	Blind cover for cylindrical insert
PN 925-586-00	Key for PHZ insert APRA
PN 925-587-00	Key for PHZ insert custom code
PN 925-588-00	Key for PHZ insert secure
PN 925-589-00	Master Key for PHZ insert custom

4.3” RACK DISPLAY

Designed for cabinets, the rack display is an essential part of the EMI-One SE / EMI-One PRO system, that provides precise, real-time insights to help maintain optimal operating conditions for your equipment.

Optimize your cabinets with the Rack display interface – a robust solution that allows to visualize the most important server rack parameters, that can be viewed locally on the frontal side of the cabinet.

Rack display 4.3”

PN 925-454-00

- An electronic label unambiguously identifying each cabinet,
- A touch-screen keyboard making it possible to authenticate users using a PIN code,
- Message of the day - a message displayed for all logged-in users, containing important information e.g. technical or organisational,
- Operation of the central module outputs and electronic handles (e.g. opening the cabinet door),
- Displaying the present temperature and humidity values and the status of analogue binary inputs, outputs and electronic handles,
- Presentation of values measured by the EMI-POWER SR-Link PDUs,
- Informing about presently active alarms in the cabinet,
- Enabling creation of charts based on temperature and humidity values,
- Enabling creation of charts based on electric power parameters,
- 2 sets of indication colour logic,
- 2.5 m standard cable length



EMI-One family access control

MANAGEMENT DISPLAY

Designed for easy management of electronic handles in stand-alone cabinets, which are not connected to any access control system

Management display

PN 925-489-00

- Intuitive user interface
- Preset configurations of handle settings and user cards, that can be easily moved between handles
- Quick and easy handle configuration makes it easy to integrate the handle with existing access control systems from 3rd party manufacturers:
  - > Assign individual close delay times
  - > Modify status LED colour logic of the handles
  - > Modify the Opening signal modes which trigger the handle to unlock its mechanism
  - > Modify the output signal logic of the handles
  - > Enable or disable Wiegand mode for each handle
  - > 2 sets of indication colour logic,
- 2 m connection cable length



RFID READERS & CARDS



RFID reader UNIQUE

PN 925-362-00

- It is designed for non-contact reading of identification data stored on passive transponders (cards, key rings, etc.)
- Supported RFID transponders type: Unique
- Maximal card distance ca. 4cm
- Operating frequency 125kHz
- 2/s Readout frequency
- 2.5 m standard cable length



RFID reader MIFARE

PN 925-370-00

- It is designed for non-contact reading of identification data stored on passive transponders (cards, key rings, etc.)
- Supported RFID transponders type: Unique
- Maximal card distance ca. 4 cm
- Operating frequency 125 kHz
- 2/s Readout frequency
- 2.5 m standard cable length



RFID reader HID

PN 925-457-00

- It is designed for non-contact reading of identification data stored on passive transponders (cards, key rings, etc.)
- Supported RFID transponder types: UNIQUE, HID Prox, HITAG-1, HITAG-2, HITAG-S
- Maximal card distance ca. 4 cm
- Operating frequency 125 kHz
- 2/s Readout frequency
- 2.5 m standard cable length



RFID card UNIQUE 125kHz

PN 925-382-00 (Standard)

PN 925-383-00 (Clamshell)

- Used with external RFID readers as well as with EMI-Lock type III, IV and VI handles that operate in UNIQUE standard
- UID number printing on rear side of the card
- Operating frequency 125 kHz
- Robust card chassis (Clamshell version only)



RFID card MIFARE 13.56MHz Standard

PN 925-384-00 (Standard)

PN 925-385-00 (Clamshell)

- Used with external RFID readers as well as with EMI-Lock type III, IV and VI handles that operate in MIFARE standard
- UID number printing on rear side of the card
- Operating frequency 13.56 MHz
- Robust card chassis (Clamshell version only)



RFID card HID Prox 125kHz Standard

PN 925-397-00 (Standard)

PN 925-398-00 (Clamshell)

- Used with external RFID readers as well as with EMI-Lock type III, IV and VI handles that operate in HID ISOProx II standard
- UID number printing on rear side of the card
- Operating frequency 125 kHz
- Robust card chassis (Clamshell version only)

EMI-POWER
BASIC

EMI-POWER BASIC SERIES

Cost effective power distribution solution for your data center – built to last.

Main features:

- Simple and robust design
- Individual socket and inlet combinations
- Dedicated mounting brackets for several mounting options
- Optional safety features:
  - > Power switch
  - > Overcurrent protection
  - > Surge protection

EMI-POWER BASIC 19" 1PH 16A

With standard 1.5 m cable; angled CEE7/7 plug; with standard plastic mounting brackets

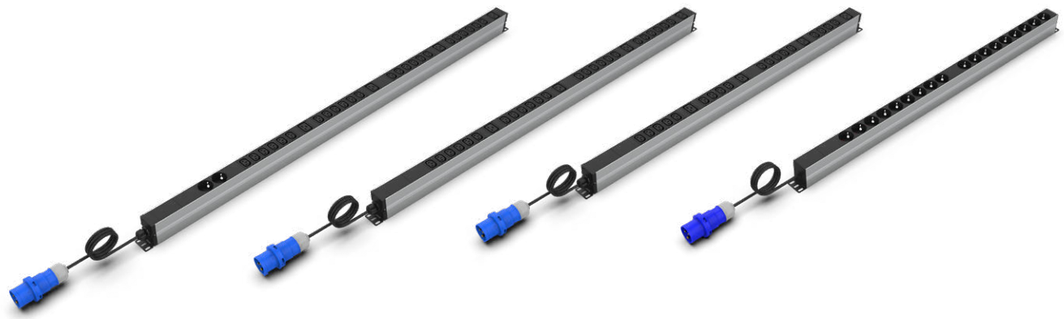
		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-650-00	8xCEE7/3 1xSwitch	16	3,7	44,3	44,3	444
PN 925-651-00	9xCEE7/3					
PN 925-652-00	9xCEE7/3 1xSwitch					
PN 925-653-00	8xCEE7/3 1xSurge Prot					
PN 925-654-00	8xUTE 1xSwitch					
PN 925-655-00	9xUTE					
PN 925-656-00	9xUTE 1xSwitch					
PN 925-657-00	8xUTE 1xSurge Prot					
PN 925-658-00	12xC13					
PN 925-659-00	11xC19					



EMI-POWER BASIC 0U 1PH 16A

3 meter 3 x 2.5 mm² H05VV-F supply cable with 3x16 CEE inlet plug

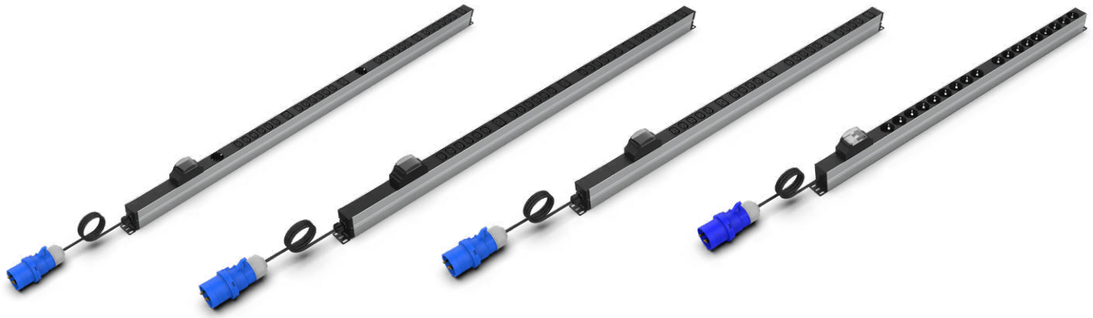
		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-660-00	24xC13 4xC19 2xCEE7/3	16	3,7	44,3	64,3	1306
PN 925-661-00	24xC13 4xC19					1177
PN 925-662-00	18xC13 4xC19					998
PN 925-668-00	18xCEE7/3					941



EMI-POWER BASIC 0U 1PH 32A

2xFUSES (2 x 16 A Type B), 3 meter 3 x 4 mm² H05VV-F supply cable with 3 x 32 CEE inlet plug. Sockets divided into two groups each protected by one fuse

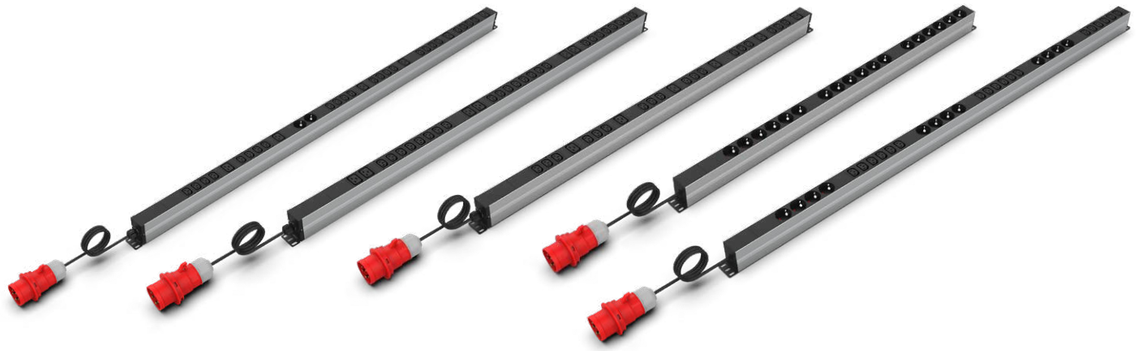
		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-670-00	24xC13 4xC19 2xCEE7/3 [2x (12xC13 2xC19 1xCEE7/3)]	32	7,4	44,3	64,3	1492
PN 925-671-00	24xC13 4xC19 [2x (12xC13 2xC19)]					1312
PN 925-672-00	18xC13 4xC19, [2x (9xC13 2xC19)]					1131
PN 925-678-00	18xCEE7/3 [2x (9xCEE7/3)]					1014



EMI-POWER BASIC 0U 3PH 16A

3 meter 5 x 2.5 mm² H05VV-F supply cable with 5x16 CEE inlet plug

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-680-00	24xC13 6xC19 2xCEE7/3	16	11	44,3	64,3	1459
PN 925-681-00	24xC13 6xC19					1253
PN 925-682-00	18xC13 6xC19					1161
PN 925-688-00	18xCEE7/3					986
PN 925-689-00	18xC13 12xCEE7/3					1416



EMI-POWER BASIC 0U 3PH 32A

6xFUSES (6 x 16 A Type B) 3 meter 5 x 4 mm² H05VV-F supply cable with 5x32 CEE inlet plug. Sockets divided into six groups, each protected by one fuse

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-690-00	24xC13 6xC19 2xCEE7/3 [2x (4xC13 1xC19 1xCEE7/3) Et 4x (4xC13 1xC19)]	32	22	44,3	64,3	1845
PN 925-691-00	24xC13 6xC19 [6x (4xC13 1xC19)]					1687
PN 925-692-00	18xC13 6xC19 [6x (3xC13 1xC19)]					1507
PN 925-698-00	18xCEE7/3 [6x (3xCEE7/3)]					1457



EMI-POWER BASIC+ SERIES

The Switchable power distribution solution from EMI-POWER BASIC+ series is a for your data center. Gain control over your outlets at affordable price.

Main features:

- Simple and robust design
- Individual socket and inlet combinations
- Dedicated mounting brackets for several mounting options
- 12 V control voltage
- Sockets are enabled by default, if control signal Is applied, then the controlled sockets are disabled
- Possibility to control socket groups as well as whole PDU sockets

EMI-POWER BASIC+ 19” 1PH 16A

Standard 1.5 m cable; angled CEE7/7 plug; with standard plastic mounting brackets

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-640-00	7xCEE7/3 Part.Switch.	16	3,7	44,3	44,3	444
PN 925-641-00	7xCEE7/3 All .Switch.					



EMI-POWER
SR-LINK

EMI-POWER SR-LINK SERIES

The EMI-POWER SR-Link series integrates power distribution solution for your data center – built to last.

EMI-POWER Smart **R**eady-**Link** PDU despite local power metering functions allow to be linked with the EMI-One SE / EMI-One PRO monitoring system. Thanks to this feature, it is possible to monitor electrical parameters of each cabinet via ethernet.

In addition to the benefits of passive PDU, the EMI-POWER SR-Link series PDUs provides the additional advantages:

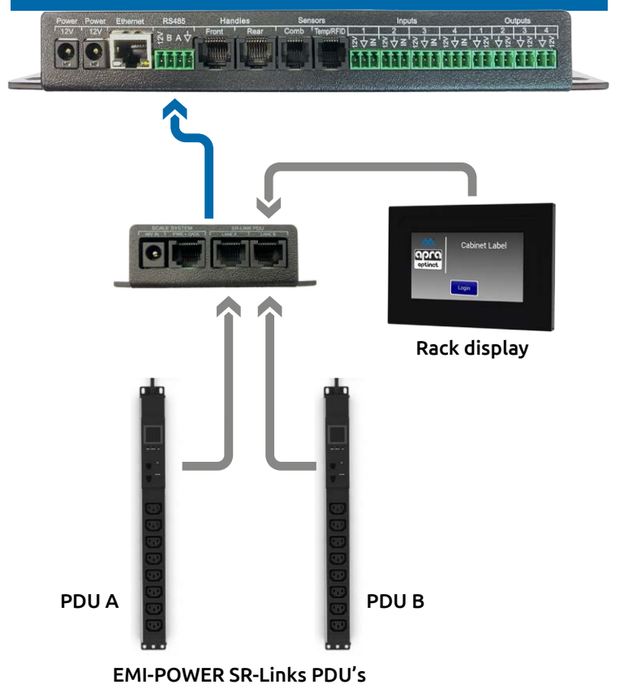


- Local view on the device's embedded display of the following electrical energy parameters:
  - > Current [A],
  - > voltage [V],
  - > frequency [Hz],
  - > active power [W],
  - > power factor.
- Local alarm thresholds setting via dedicated buttons
- Modbus RTU support
- Up to 32 devices can be connected in Daisy-chain configuration

Additional features after linking with EMI-One system:

- Remote reading of all available electrical energy parameters via EMI-One SE / EMI-One PRO webserver interface:
  - > Current [A],
  - > voltage [V],
  - > frequency [Hz],
  - > active power [W],
  - > power factor,
  - > reactive power [Var],
  - > apparent power [VA],
  - > active energy consumption [kWh],
  - > reactive energy consumption [kVarh].
- Access to all, mentioned above, parameters via SNMP protocol,
- Local reading of electrical energy parameters on an additional, optional 4,3" Rack display that can be mounted on a cabinet's door,
- Remote alarm threshold settings via dedicated EMI-One SE / EMI-One PRO webserver interface,
- Expanded alarming possibilities provided by the controller: built-in buzzer, notifications via SMS, email or SNMP Trap, events stored in the controllers event logHot-swappable metering module
- Dedicated alarm section in the EMI-One SE / EMI-One PRO webserver interface

EMI-One SE / EMI-One PRO controller



EMI-POWER SR-Links PDU's

EMI-POWER SR-LINK 19" 1PH

With local+ link ready metering unit, with standard 1.5 m cable; angled CEE7/7 plug; with standard plastic mounting brackets

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-700-00	1PH 16A 6xCEE7/3	16	3,7	44,3	44,3	444
PN 925-701-00	1U 1PH 16A 6xUTE					
PN 925-702-00	1U 1PH 16A 8xC13					

With local+ link ready metering unit, with 3 meter 3 x 2.5 mm² H05VV-F supply cable with CEE7/7 inlet plug; with standard plastic mounting brackets

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-704-00	2U 1PH 16A 12xCEE7/3	16	3,7	88,6	44,3	444
PN 925-705-00	2U 1PH 16A 12xC13 3xCEE7/3					441
PN 925-706-00	2U 1PH 16A 12xC13 3xC19					



With local+ link ready metering unit, with 3 meter 3 x 4 mm² H05VV-F supply cable with 3x32 CEE inlet plug; with standard plastic mounting brackets

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-707-00	2U 1PH 32A 12xCEE7/3	32	7,4	88,6	44,3	444
PN 925-708-00	2U 1PH 32A 12xC13 3xCEE7/3					441
PN 925-709-00	2U 1PH 32A 12xC13 3xC19					

EMI-POWER SR-LINK 19" 3PH

With local+ link ready metering unit, with 3 meter 5 x 4 mm² H05VV-F supply cable with 3x32 CEE inlet plug. Sockets divided into three groups (2xC19)

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-703-00	3PH 32A 6xC19	32	22	44,3	44,3	444



EMI-POWER SR-LINK 0U 1PH 16A

With local+ link ready metering unit 0U, 3 meter 3 x 2.5 mm² H05VV-F supply cable with 3x16 CEE inlet plug with CEE7/7 inlet plug; PN 925-719-20 with C19 inlet plug)

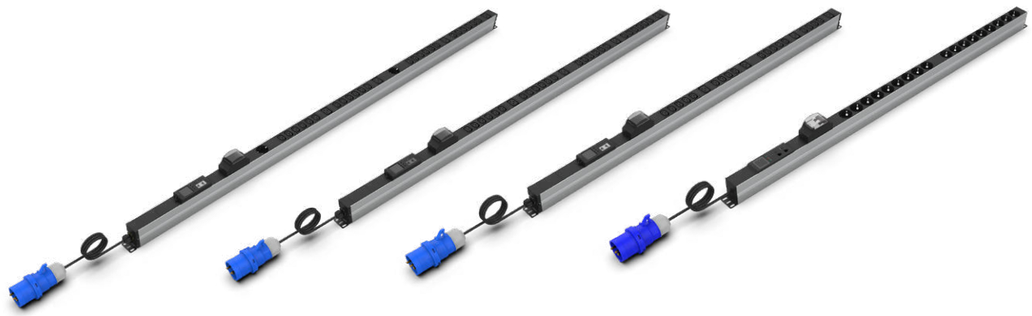
		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-710-00	24xC13 4xC19 2xCEE	16	3,7	44,3	64,3	1486
PN 925-711-00	24xC13 4xC19					1357
PN 925-712-00	18xC13 4xC19					1177
PN 925-718-00	18xCEE					1059
PN 925-719-00	12xC13 2xC19 12xCEE					1427
PN 925-719-10	12xC13 2xC19 12xCEE (inlet CEE7/7)					
PN 925-719-20	12xC13 2xC19 12xCEE (inlet C19)					



EMI-POWER SR-LINK 0U 1PH 32A

With local+ link ready metering unit (RS485 module) 0U, 2xFUSES (2x16A Type B) 3 meter 3 x 4 mm² H05VV-F supply cable with 3x32 CEE inlet plug. Sockets divided into two groups each protected by one fuse

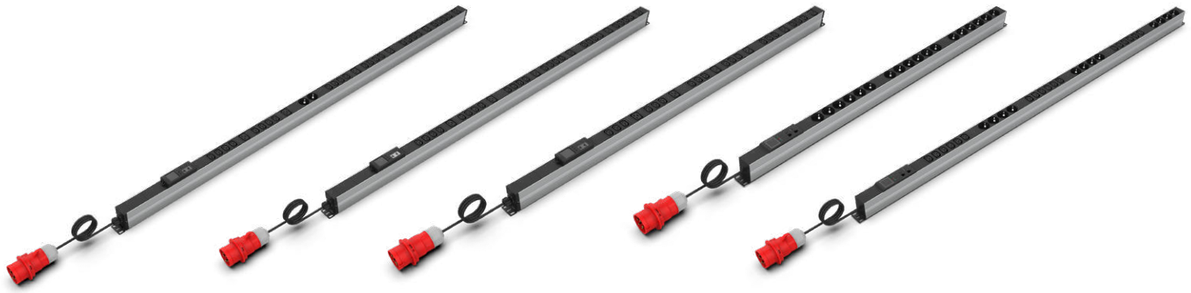
		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-720-00	24xC13 4xC19 2xCEE7/3 [2x(12xC13 2xC19 1xCEE7/3)]	32	7,4	44,3	64,3	1672
PN 925-721-00	24xC13 4xC19 [2x(12xC13 2xC19)]					1492
PN 925-722-00	18xC13 4xC19 [2x(9xC13 2xC19)]					1311
PN 925-728-00	18xCEE7/3 [2x(9xCEE7/3)]					1194



EMI-POWER SR-LINK 0U 3PH 16A

With local+ link ready metering unit (RS485 module) 0U, 3 meter 5 x 2.5 mm² H05VV-F supply cable with 5x16 CEE inlet plug

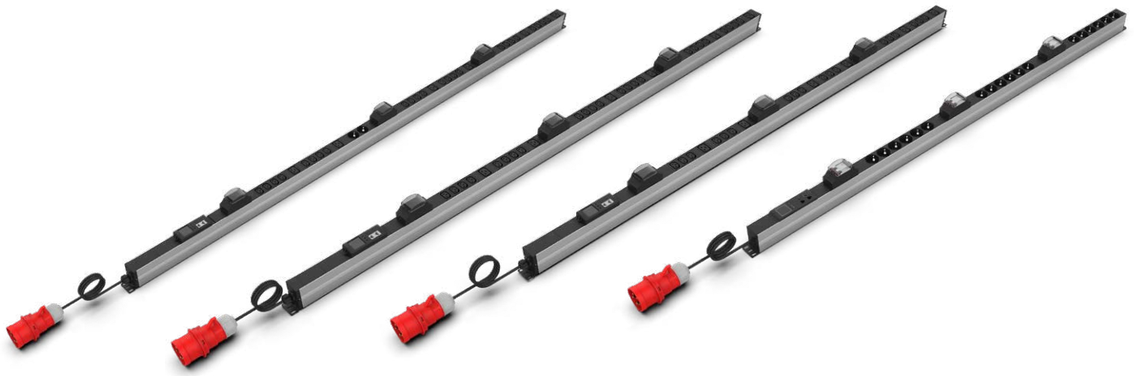
		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-730-00	24xC13 6xC19 2xCEE7/3	16	11	44,3	64,3	1649
PN 925-731-00	24xC13 6xC19					1519
PN 925-732-00	18xC13 6xC19					1341
PN 925-738-00	18xCEE7/3					1104
PN 925-739-00	24xC13 12xCEE7/3					1534



EMI-POWER SR-LINK 0U 3PH 32A

With local+ link ready metering unit (RS485 module) 0U. 6xFUSES (6x16A Type B); 3 meter 5 x 4 mm² H05VV-F supply cable with 5x32 CEE inlet plug. Sockets divided into six groups, each protected by one fuse

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-740-00	3PH 32A 24xC13 6xC19 2xCEE7/3 [2x(4xC13 1xC19 1xCEE7/3) & 4x(4xC13 1xC19)]; CEE7/3 sockets connected to Phase L1 (nearest of measuring unit) Fuse 1 of PDU	32	22	44,3	64,3	1978
PN 925-741-00	3PH 32A 24xC13 6xC19 [6x(4xC13 1xC19)]					1865
PN 925-742-00	3PH 32A 18xC13 6xC19 [6x(3xC13 1xC19)]					1687
PN 925-748-00	3PH 32A 18xCEE7/3 [6x(3xCEE7/3)]					1509



Remarks :

- SR-LINK' metering unit assumes hot swappable with RS485 connectiity
- all devices should include earthing connection on the aluminium device body
- each ‚0U' mounted product should include 2 pcs. of dedicated metal mounting brackets, that allow the PDU to be rotated each 90 degrees

EMI-POWER ACCESSORIES



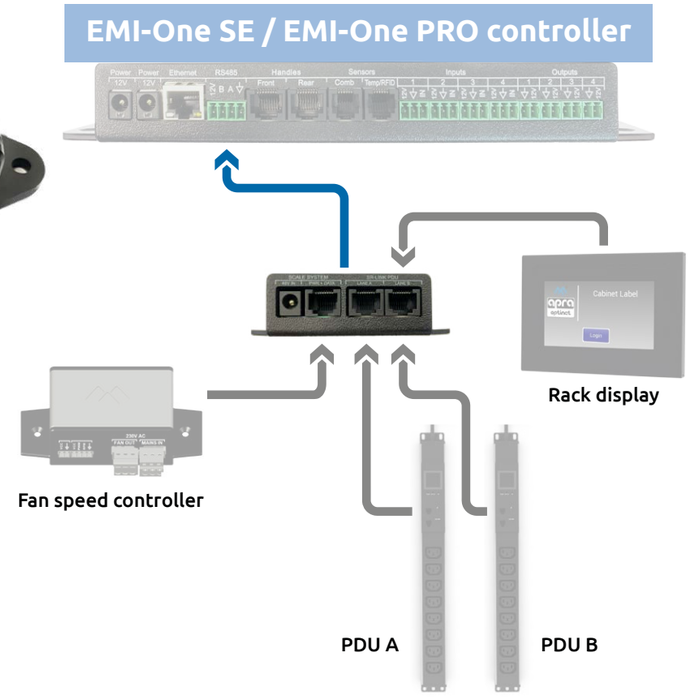
RS485 adapter for EMI controller

PN 925-431-00

The RS485 adapter for EMI controller extends the **EMI-One SE / EMI-One PRO** system's functionality to connect multiple devices to the RS485 interface of the controller.

The adapter allows to connect the following devices to the EMI controllers:

- Dedicated 4,3 or 7" Rack display module
- Local GSM module
- EMI-Scale system with separate power module
- 2 EMI-POWER SR Link PDU communication lanes

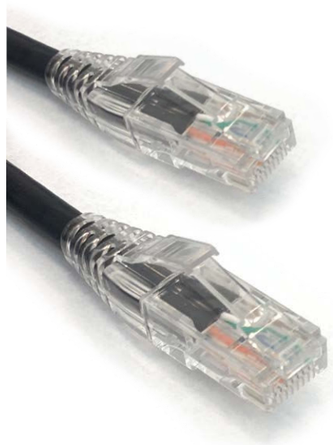


PATCHCORDS

EMI-POWER Patchcord for SR-LINK Module

PN 925-620-00 (1.0 m black)

PN 925-621-00 (3.0 m black)

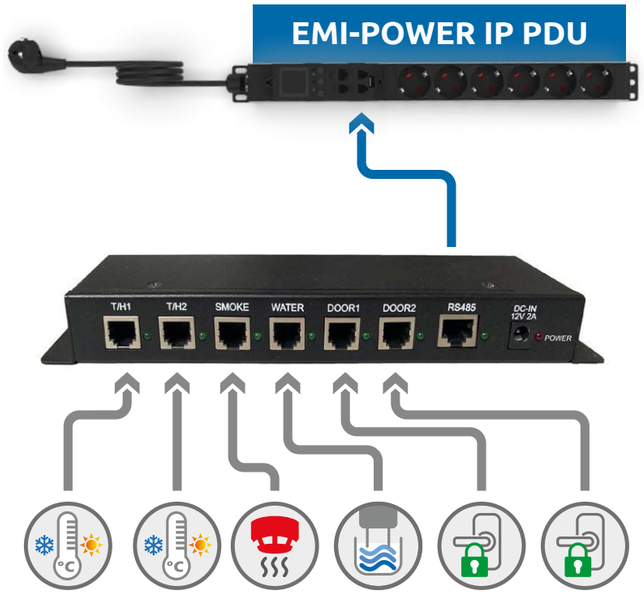




7

EMI POWER IP





EMI-POWER IP intelligent Power Distribution Units from **apra-optinet** provide a reliable and flexible solution for powering cabinets.

Each standard 32A PDU is divided into equal subcircuits, with every section protected by type C miniature circuit breakers (MCBs) rated at 16A nominal current.

In addition to local energy metering, every PDU includes an integrated web interface, enabling **remote monitoring of electrical parameters** via Ethernet. The PDU supports a wide range of communication protocols such as SNMPv2c/V3 and Modbus TCP.

The PDUs metering and power supply module is **hot-swappable**, which allows to replace it without interrupting the power strip operation and ensuring continuous power supply to the connected devices.

Most important Features

- **Local monitoring via built-in display**
  - > Real-time measurements: Current [A], Voltage [V], frequency [Hz], Active Power [kW], and power factor
  - > Environmental data: temperature and/or humidity from connected sensors
  - > Network configuration overview: IP port, IP address, MAC, DHCP mode
  - > Local alarm threshold setup
  - > Simple navigation through an intuitive 3-button interface
- **Hot-swappable design** – modules can be replaced without interrupting power supply.
- **Scalable architecture** – connect up to 4 SLAVE units to 1 MASTER device.
- **Remote monitoring via embedded web server**
  - > Full visibility of electrical parameters for each phase:
    - · Current [A], Voltage [V], Active Power [W], Reactive Power [Var], Apparent Power [VA]
    - · Energy consumption: Active [kWh], Reactive [kVarh]
    - · Power Factor and Frequency [Hz]
  - > Remote configuration of alarm thresholds
- **Advanced configuration & notifications**
  - > Full setup of all communication protocols supported by the PDU
  - > Alarm notifications via **email** and/or **SNMP Trap**, logged in the event log
  - > All Events stored in the device's event log
  - > Remote firmware upgrade through the embedded interface
- **Environmental monitoring support**
  - > Direct connection of up to **2 sensors**
  - > Expansion up to **6 sensors** via dedicated Sensor + I/O Box (see page 37)

EMI-POWER IP 19" 1PH

With standard 1.5m cable; angled CEE7/7 plug; with standard plastic mounting brackets

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-750-00	1U 1PH 16A 6xCEE7/3	16	3,7	44,3	64,3	439
PN 925-751-00	1U 1PH 16A 6xUTE					
PN 925-752-00	1U 1PH 16A 8xC13					



EMI-POWER IP 0U 1PH

With 3 meter 3x2.5mm² H05VV-F supply cable with 3x16 CEE inlet plug

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-760-00	0U 1PH 16A 24xC13 4xC19 2xCEE7/3	16	3,7	44,3	64,3	1504
PN 925-761-00	0U 1PH 16A 24xC13 4xC19					1375
PN 925-762-00	0U 1PH 16A 18xC13 4xC19					1195
PN 925-770-00	0U 1PH 32A 24xC13 4xC19 2xCEE7/3	32	7,4	44,3	64,3	1690
PN 925-771-00	0U 1PH 32A 24xC13 4xC19					1507
PN 925-772-00	0U 1PH 32A 18xC13 4xC19					1330



EMI-POWER IP 0U 3PH

With 3 meter 5x2.5mm² H05VV-F supply cable with 5x16 CEE inlet plug

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-780-00	0U 3PH 16A 24xC13 6xC19 2xCEE7/3	16	11	44,3	64,3	1742
PN 925-781-00	0U 3PH 16A 24xC13 6xC19					1613
PN 925-782-00	0U 3PH 16A 18xC13 6xC19					1435



EMI-POWER IP 0U 3PH

With IP metering unit (IP module) 3 meter 5x4mm² H05VV-F supply cable with 5x32 IEC inlet plug CEE7/7 connected to L1 Sockets divided into six groups 6x(4xC13 1xC19) each protected by one fuse

		Rated current [A]	Rated power [kW]	Width	Heigth	Length
PN 925-790-00	0U 3PH 32A 24xC13 6xC19 2xCEE7/3	32	22	44,3	64,3	1998
PN 925-791-00	0U 3PH 32A 24xC13 6xC19					1885
PN 925-791-50	0U 3PH 32A 24xC13 6xC19 red					
PN 925-792-00	0U 3PH 32A 18xC13 6xC19					1705
PN 925-792-50	0U 3PH 32A 18xC13 6xC19 red					



ACCESSORIES



EMI-POWER IP Sensor + I/O Box

PN 925-627-00

The IP Sensor + I/O Box Module expands the functionality of EMI-POWER IP PDUs, acting as a central hub that allows to connect multiple environmental sensors.

- Communication via RS485 Modbus RTU protocol,
- Support of up to 2 temperature / temperature & humidity sensors,
- Support of up to 4 analogue binary sensors that enable e. g. smoke, water and door opening detection,
- LED indication for active devices connected to the module.



EMI-POWER IP Temperature Sensor

PN 925-628-00

Ideal for environments where temperature control is critical – such as cabinets, network rooms, and storage areas.

- Measurement range from -40°C to 95°C
- 0.1°C resolution
- ± 0.5% accuracy level
- 0.1°C resolution
- 2 m standard cable length

EMI-POWER IP Combo Sensor (T + H)

PN 925-629-00

- Measurement range:
  - > temperature: from -40°C to 95°C,
  - > humidity: from 0 to 90% RH
- Resolution:
  - > temperature: 0.1°C,
  - > humidity: 0.1% RH
- Accuracy level
  - > temperature: ±0.5°C,
  - > humidity: ±5% RH
- 2 m standard cable length

EMI-POWER
CABLES

EMI-POWER CABLES

The EMI-POWER system includes cables equipped with IEC Lock which can prevent accidental disconnection of the most important electrical appliances.

Guards against accidental disconnection of computers, servers and most electrical appliances.

A UNIQUE PATENTED MECHANISM FOR LOCKING IEC CONNECTORS SUITABLE FOR USE WITH ANY STANDARD C14 OR C20 INLETS.

- IEC LOCK is designed to help prevent accidental disconnection of computer and servers containing valuable data and critical equipment
- Suitable for various Data Communications applications that require a secure power source
- Unique 'patented' lockable Female C13, C14, C15 & C19 connector 'IEC Lock®' connectors & outlets
- Dual locking IEC C14 & C20 connectors with >100N withdrawal force
- Suitable to prevent vulnerable appliances becoming disconnected due to vibration

EMI-POWER CABLE C13/C14 SL



MALE C14 PLUG



H05VV-F
3 x 1.00 mm^2



FEMALE C13 INLET
IEC LOCK

PN 925-850-05	black	0.5 m	 EMI-POWER CABLE C13/C14 Single Lock
PN 925-850-10		1.0 m	
PN 925-850-15		1.5 m	
PN 925-850-20		2.0 m	
PN 925-850-30		3.0 m	
PN 925-851-05	blue	0.5 m	
PN 925-851-10		1.0 m	
PN 925-851-15		1.5 m	
PN 925-851-20		2.0 m	
PN 925-851-30		3.0 m	
PN 925-852-05	orange	0.5 m	
PN 925-852-10		1.0 m	
PN 925-852-15		1.5 m	
PN 925-852-20		2.0 m	
PN 925-852-30		3.0 m	
PN 925-853-05	white	0.5 m	
PN 925-853-10		1.0 m	
PN 925-853-15		1.5 m	
PN 925-853-20		2.0 m	
PN 925-853-30		3.0 m	
PN 925-854-05	red	0.5 m	
PN 925-854-10		1.0 m	
PN 925-854-15		1.5 m	
PN 925-854-20		2.0 m	
PN 925-854-30		3.0 m	

EMI-POWER CABLE C13/C14 DL



MALE C14 PLUG
IEC LOCK



H05VV-F
3 x 1.00 mm²
& SJT 3X17 AWG



FEMALE C13 INLET
IEC LOCK+ SLIMLINE

IEC LOCK+

PN 925-860-05	black	0.5 m
PN 925-860-10		1.0 m
PN 925-860-15		1.5 m
PN 925-860-20		2.0 m
PN 925-860-30		3.0 m
PN 925-861-05	blue	0.5 m
PN 925-861-10		1.0 m
PN 925-861-15		1.5 m
PN 925-861-20		2.0 m
PN 925-861-30		3.0 m
PN 925-863-05	white	0.5 m
PN 925-863-10		1.0 m
PN 925-863-15		1.5 m
PN 925-863-20		2.0 m
PN 925-863-30		3.0 m
PN 925-864-05	red	0.5 m
PN 925-864-10		1.0 m
PN 925-864-15		1.5 m
PN 925-864-20		2.0 m
PN 925-864-30		3.0 m



EMI-POWER CABLE C13/C14 Dual Lock

EMI-POWER CABLE C14/C15 DL



MALE C14 PLUG
IEC LOCK



H05RN-F
3 x 1.00 mm²



FEMALE C15 INLET
IEC LOCK+ SLIMLINE

IEC LOCK+

PN 925-870-10	black	1.0 m
PN 925-870-20		2.0 m
PN 925-870-30		3.0 m
PN 925-871-10	blue	1.0 m
PN 925-871-20		2.0 m
PN 925-871-30		3.0 m
PN 925-873-10	white	1.0 m
PN 925-873-20		2.0 m
PN 925-873-30		3.0 m
PN 925-874-10	red	1.0 m
PN 925-874-20		2.0 m
PN 925-874-30		3.0 m



EMI-POWER CABLE C14/C15 Dual Lock

EMI-POWER CABLE C19/C20 SL



MALE C20 PLUG



H05VV-F
3 x 1.50 mm²



FEMALE C19 INLET
IEC LOCK

IEC LOCK

PN 925-880-10	black	1.0 m
PN 925-880-15		1.5 m
PN 925-880-20		2.0 m
PN 925-880-30		3.0 m
PN 925-881-10	blue	1.0 m
PN 925-881-15		1.5 m
PN 925-881-20		2.0 m
PN 925-881-30		3.0 m
PN 925-882-10	orange	1.0 m
PN 925-882-15		1.5 m
PN 925-882-20		2.0 m
PN 925-882-30		3.0 m
PN 925-883-10	white	1.0 m
PN 925-883-15		1.5 m
PN 925-883-20		2.0 m
PN 925-883-30		3.0 m
PN 925-884-10	red	1.0 m
PN 925-884-15		1.5 m
PN 925-884-20		2.0 m
PN 925-884-30		3.0 m



EMI-POWER CABLE C19/C20 Single Lock

EMI-POWER CABLE C19/C20 DL



MALE C20 PLUG
IEC LOCK



H05VV-F
3 x 1.50 mm²
& SJT 3X15 AWG



FEMALE C19 INLET
IEC LOCK

IEC LOCK+

PN 925-890-10	black	1.0 m
PN 925-890-20		2.0 m
PN 925-890-30		3.0 m
PN 925-891-10	blue	1.0 m
PN 925-891-20		2.0 m
PN 925-891-30		3.0 m
PN 925-893-10	white	1.0 m
PN 925-893-20		2.0 m
PN 925-893-30		3.0 m
PN 925-894-10	red	1.0 m
PN 925-894-20		2.0 m
PN 925-894-30		3.0 m



EMI-POWER CABLE C19/C20 Dual Lock

EMI-Power Cables

EMI-One family
Cold Corridor solution

THE EMI-ONE PRO



EMI-One PRO

PN 925-303-00

The **EMI-One PRO** controller is a powerful device which capabilities allow for **cold corridor management in modern server rooms and data centers.**

A *cold corridor* (also known as a cold aisle) is a contained area in a server room where cooled air is directed in front of cabinets. By keeping this space enclosed and controlled, data centers can deliver cooling exactly where it is needed, improving energy efficiency, equipment reliability, and overall operational performance.

Installed as the **central management device for a cold corridor**, the EMI-One PRO provides secure access control and continuous environmental monitoring (such as temperature, humidity and air pressure). This centralized approach allows operators to manage the corridor as a single, efficient unit rather than monitoring individual cabinets separately.

Designed for **modular and scalable deployments**, each EMI-One PRO controller manages one cold corridor, ensuring high system reliability and easy expansion as the data center grows. The controller integrates seamlessly with **DCIM-grade management platforms**, including **EMI Connect**, delivering a unified view of infrastructure health and performance.

With **remote access, real-time alerts**, and **centralized logging**, the EMI-One PRO helps data center operators maintain compliance, reduce energy costs, and safeguard critical IT equipment—making cold corridor management simpler, smarter, and even more efficient.

Description

- Control, configuration and reading of the device's settings by a transparent interface through a web browser (built-in web-server),
- 2 Ethernet interfaces (2x1Gbit with separate, independent MACs) for connection redundancy,
- Dual DC power sockets and additionally PoE+ support for connecting controller up to 3 independent sources for power redundancy,
- 4x separate 12V output channels
- 6x independent digital inputs enabling the usage of two-state sensors,
- 2x potential-free relay outputs of NO/NC type that allow connecting devices that require higher power,
- Possibility to connect up to 10 digital sensors. Each sensor can have its unique address and label assigned via web-interface of the controller,
- Support of intelligent PDUs in scope of data aggregation,
- Extended, fully customizable alarm section that can be triggered depending on the input states and amp; values measured from devices connected to the controller:
- dynamic rules system that enables automatic control for configured outputs depending on the input state or measured values,
- 2x dedicated sockets for connecting electronic handles from the apra EMI-Lock family, and from other, external manufacturers, also with built-in RFID readers
- Access control functionality:
  - > RFID transponder readers (both external and built inside electronic handles),
  - > external LCD touch panels (with authentication via PIN code)
  - > remote access & control
  - > multi-level security configuration for user accounts (different permission levels, PoLP)
- The EMI-One PRO controller is compliant with the NIS2 directive for access control systems in scope of:
  - > Encrypted data exchange on whole communication line (card/token-reader-controller-server),
  - > Support of data encryption mechanisms such as AES-128,
  - > Support of safe data exchange via the OSDPv2 protocol,
  - > 2-factor authentication (2FA) (via PIN code and RFID tag readout),
  - > 2-stage authorisation (via readout of different 2 different RFID cards one after another),
- 2x USB sockets that allow integration with camera system (which captures images every time authorisation is attempted),
- Dedicated microSD card slot enabling event log backup on an external memory device,
- All settings, measurement data and amp; event log saved in the controller's built-in non-volatile memory (up to 100k events),
- REST API OAS 3.0 (OpenAPI Specification) for easy integration with 3rd party services
- Support of encrypted e-mail notifications,
- Support of the SNMP v2c and v3 protocol with Trap notifications,
- Support od SMS and e-mail notifications via GSM (additional module required),
- Built-in acoustic indicator and LED diodes informing about the device's status,
- Dedicated EMI-Connect software that enables management of multiple devices and allowing long-term data saving and parameter analysis.

DIGITAL SENSORS

Possible to connect up to 8 sensors.



Temperature sensor

PN 925-410-00

- Allows to monitor temperature inside cabinets, rooms with network equipment, warehouses etc.
- Multiple sensors can be connected in daisy-chain-configuration
- Working temperature from -55°C up to +125°C
- ± 0.5% accuracy level for temperature measurement in a range from -10°C up to +85°C
- 2.5 m standard cable length



Combo sensor (high accuracy)

PN 925-374-00

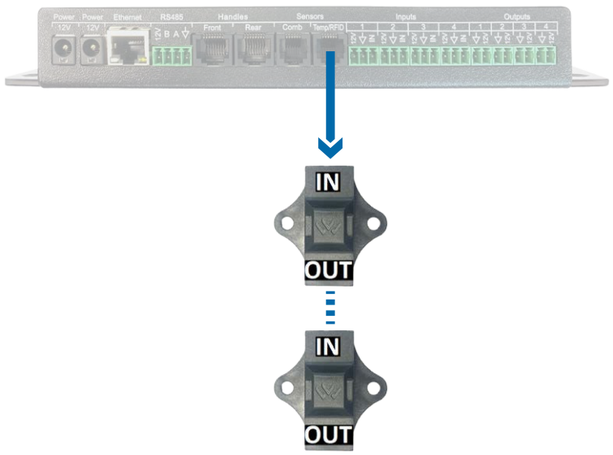
- Allows to monitor temperature and humidity levels inside cabinets, rooms with network equipment, warehouses etc.
- Multiple sensors can be connected in daisy-chain-configuration
- Working conditions for: -40°C up to +125°C and 0 up to 100% relative humidity
- ± 0.1% accuracy level for temperature measurement in a range from 20°C up to +60°C
- ±1.5% accuracy level for humidity measurement in a range from 0% up to 80%
- Measurement drift: ± 0.3°C / year for temperature and < 0.25% / year for humidity
- 2.5 m standard cable length



Pressure sensor (high accuracy)

PN 925-462-00

- Allows to monitor temperature and humidity levels inside cabinets, rooms with network equipment, warehouses etc.
- Multiple sensors can be connected in daisy-chain-configuration
- Working conditions for: -40°C up to +125°C and 0 up to 100% relative humidity
- ± 0.1% accuracy level for temperature measurement in a range from 20°C up to +60°C
- ±1.5% accuracy level for humidity measurement in a range from 0% up to 80%
- Measurement drift: ± 0.3°C / year for temperature and < 0.25% / year for humidity
- 2.5 m standard cable length



ANALOGUE (TWO-STATE) SENSORS

Possible to connect up to 4 sensors.



Fire sensor

PN 925-368-00

- It is intended to detect fire hazard at an early stage – the device supports several operation modes (smoke, heat, multisensor)
- Smoke detection compliant with PN-EN 54-7 standard
- Heat detection compliant with PN-EN 54-5 standard
- 2.5 m standard cable length



Conductive fluid sensing cable

PN 925-400-00

- It is intended to expand the flood sensor (925-369-00) detection range by an additional area
- 50 m max. cable length
- 1 m standard cable length (desired cable length is set individually)



Flood sensor

PN 925-369-00

- It is intended for use in areas where risk of leakage from a water system, air conditioners can occur
- Detection area can be expanded with additional accessories an external probe (925-461-00) or conducting fluid sensig cable (925-400-00)
- Detection probes can be set up to 35 mm
- Additional acoustic indication
- 2.5 m standard cable length



Flood sensor additional probe

PN 925-461-00

- It is intended to expand the flood sensor (925-369-00) detection range by an additional detection point
- 2.5 m standard cable length



Door contact

PN 925-364-00 (White colour)

PN 925-459-00 (Black colour)

- It is designed to monitor the position (opening status) of doors, side panels, roofs, windows, etc.
- Contact activation threshold less than 20 mm
- Supports End Of Line (EOL) tampering detection
- Can be additionally equipped with not
- 2.5 m standard cable length



Light sensor

PN 925-389-00

- It is designed to monitor insufficient light intensity
- Supports 3 operation modes (energy-efficiency, standard, high luminescence) for optimized system power consumption
- Activation threshold can be set form 1 up to 1000 lx
- Adjustment range for activation threshold at: 1...10...100...1000 lx
- Maximum delay time below 1 minute
- 2.5 m standard cable length

7" RACK DISPLAY

Designed for Cold corridors, the 7" display is an essential part of the EMI-One family Cold Corridor system, that provides precise, real-time insights to help maintain optimal operating conditions for your equipment.

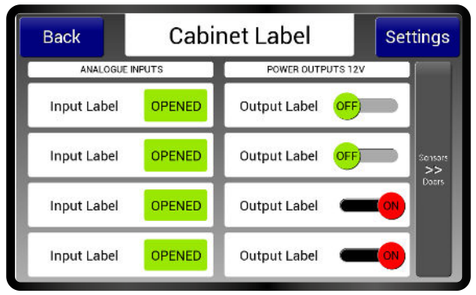
Optimize your cold corridors with the 7" display interface – a robust solution that allows to visualize the most important parameters that can be viewed locally on the frontal side of the corridor.

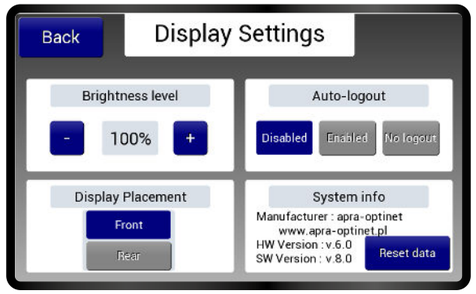


Rack display 7" CC

PN 925-453-00

- An electronic label unambiguously identifying the corresponding cold corridor,
- A touch-screen keyboard makes it possible to authenticate users using a PIN code,
- Message of the day – a message displayed for all logged-in users, containing important information e.g. technical or organisational,
- Operation of the central module outputs (e.g. automatic doors control, lighting regulation),
- Displaying the present temperature and humidity values and the current inputs, outputs and automatic doors status,
- Control over cold corridor automatic doors,
- Informing about presently active alarms within the cold corridor,
- Enabling creation of charts with temperature and humidity changes.
- 2 sets of indication colour logic
- 2.5 m standard cable length





APRA CONNECTION BOX SOLUTIONS

The connection box allows you to simplify, protect and control the cold corridor control equipment.

Put the most important components responsible for controlling automatic doors and ceiling floor lighting as well as environmental monitoring of the cold corridor in one place.





Connection box (1)

- Includes component responsible for door control
- Incorporates components required for ceiling light control

PN 925-423-00	Possibility to control automatic doors on 1 side of the cold corridor
PN 925-423-10	Possibility to control automatic doors on 2 sides of the cold corridor



Automatic doors control

Connection box (2)

- Includes component responsible for door control
- Incorporates components required for floor light control. Floor LED colours can be customized upon customer's wish

PN 925-455-00	Possibility to control automatic doors on 1 side of the cold corridor
PN 925-455-10	Possibility to control automatic doors on 2 sides of the cold corridor



Automatic doors control



Floor light control

Connection box (3)

- Includes component responsible for door control
- Incorporates components required for floor light control. Floor LED colours can be customized upon customer's wish
- Incorporates components required for ceiling light control

PN 925-456-00	Possibility to control automatic doors on 1 side of the cold corridor
PN 925-456-10	Possibility to control automatic doors on 2 sides of the cold corridor



Automatic doors control

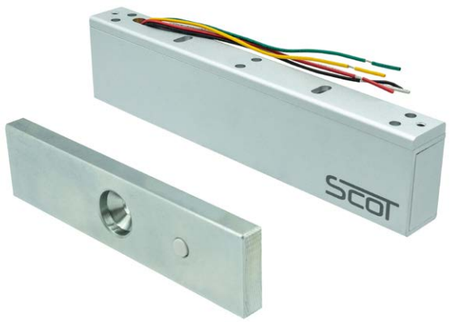


Floor light control



Ceiling light control

COLD CORRIDOR ACCESSORIES





Electromagnetic lock

PN 925-411-00 (1800 N)

PN 925-415-00 (700 N)

- Increases the security of the locking system against vandalism
- No moving mechanical parts
- 1800 N / 700 N holding force
- Fully integrated within the EMI-One SE / EMI-One PRO system
- Full set that consists of: power supply, relay and cabling
- 2.5 m standard cable length



LED lamp 120 cm

PN 925-452-00

- Designed for use in places which have to be additionally illuminated, because of the lack of sufficient quality of ceiling light such as cold corridors, cabinets, rooms with network equipment, warehouses etc
- 24 V supply voltage
- 4000 K Colour temperature
- 2880 lm brightness
- Elegant enclosure design



EMERGENCY EXIT BUTTONS



Exit button (finger, wired version) set

PN 925-425-00

Compact and reliable, these buttons are designed for quick activation with a simple press of the finger.

- Supported NO contact logic
- Backlight for better identification
- 5 m standard cable length



Exit button (finger, wireless version) set

PN 925-426-00

- Supported NO/NC contact logic
- The set consists of a button and a wireless receiver module
- 868 MHz transceiver operating frequency
- Up to 250 m transmission range





Expander for EMI „Handle" socket" controller

PN 925-421-00

The handle expander module allows to connect multiple devices, that are utilizing the access control functionality, to the "Handles" slot of the EMI controller.

The module allows to connect the following devices to EMI controllers:

- Includes components responsible for door control
- Separate power module for one of the relay outputs marked as "CTRL. OUT"
- External RFID reader
- Door opening sensor based on a dry contact (recommended 925-363-00 or 925-459-00)
- Switchable output that allows to connect an external electromagnetic lock
- Switchable relay output that allows to connect e. g. an external automatic door controller



Exit button (foot, wired version) set

PN 925-427-00 (black colour)

PN 925-428-00 (orange colour)

Hands-free operation for advanced accessibility in emergency situations.

- Supported NO/NC contact logic
- Robust design
- 10 m standard cable length

EMI-One family Cold Corridor solutions

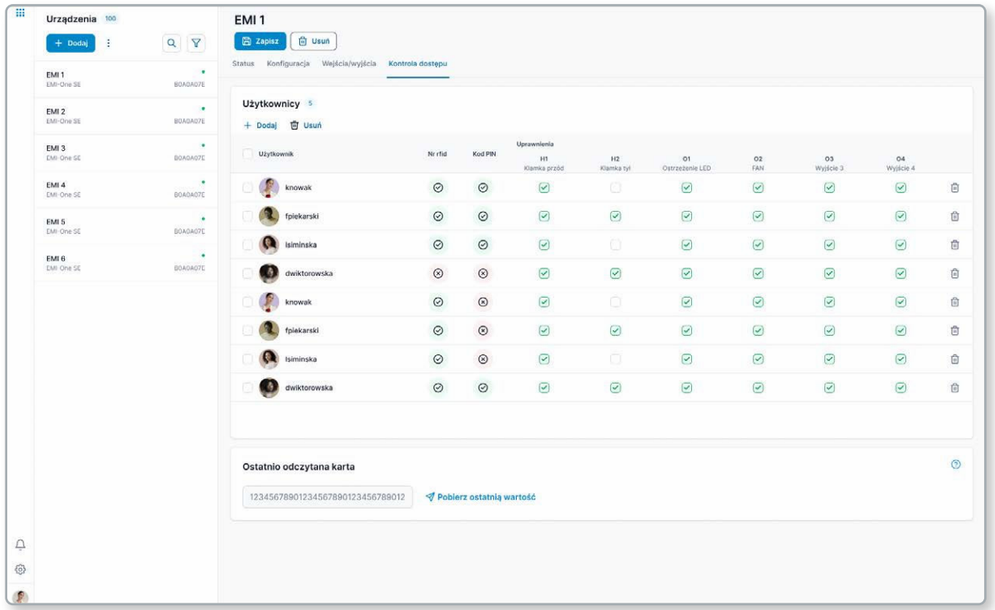
Management software

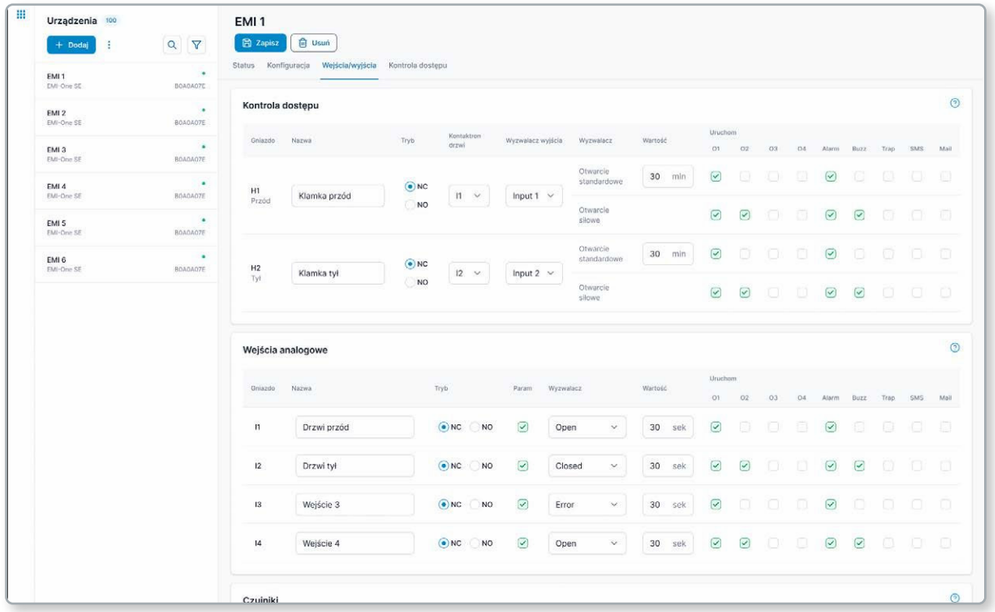
EMI-CONNECT

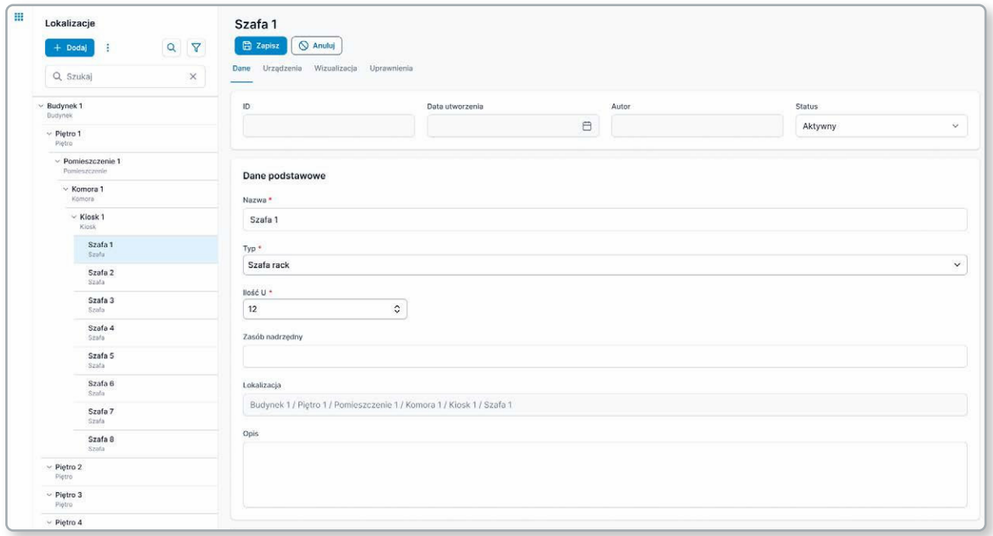
The EMI Connect management software implements the functionality of the management layer of all devices that are produced by the apra company as well as solutions offered by other manufacturers that are dedicated for the use in data centers.

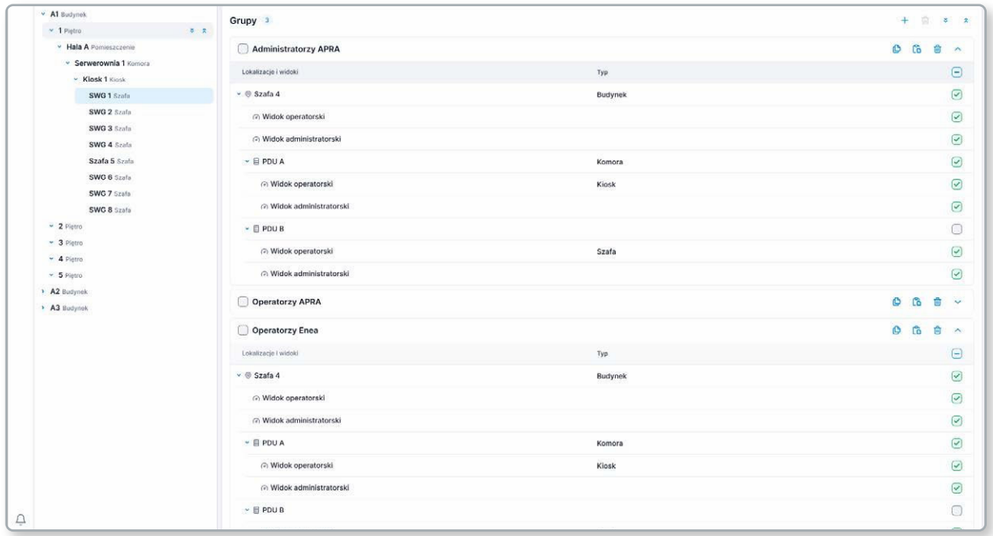
Key features:

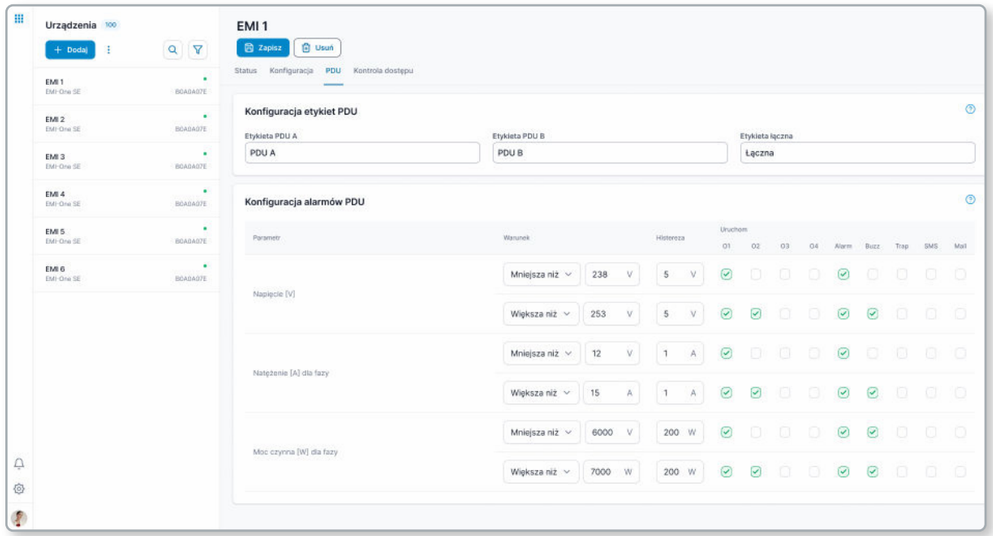
- Interactive room maps of actual Data Center,
- Fully customizable graphs of any measured values,
- Access control management – doors/locks status, users and rights management,
- Energy consumption reports for rack/corridor/room,
- PDU data visualisation,
- Integration with the OpenStreetMap system,
- Event LOG

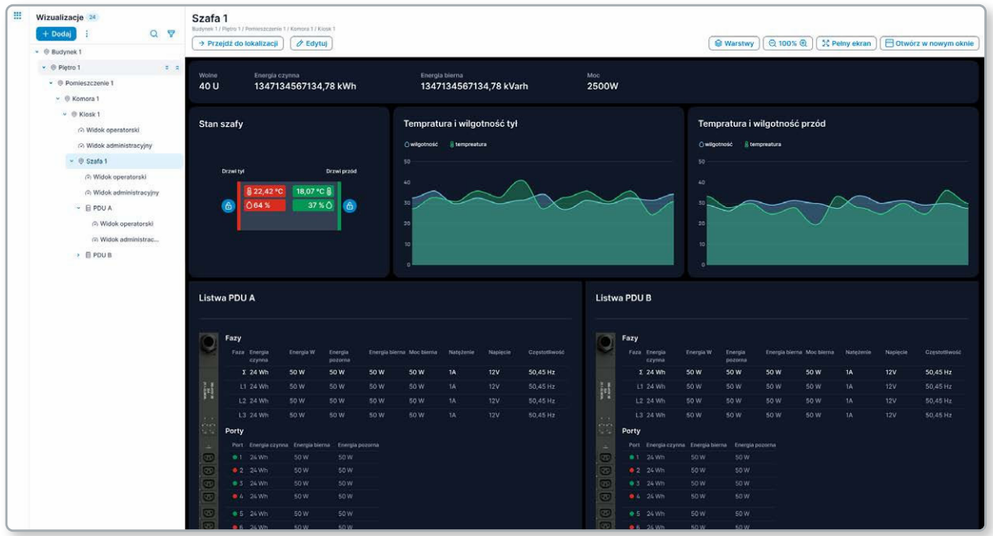


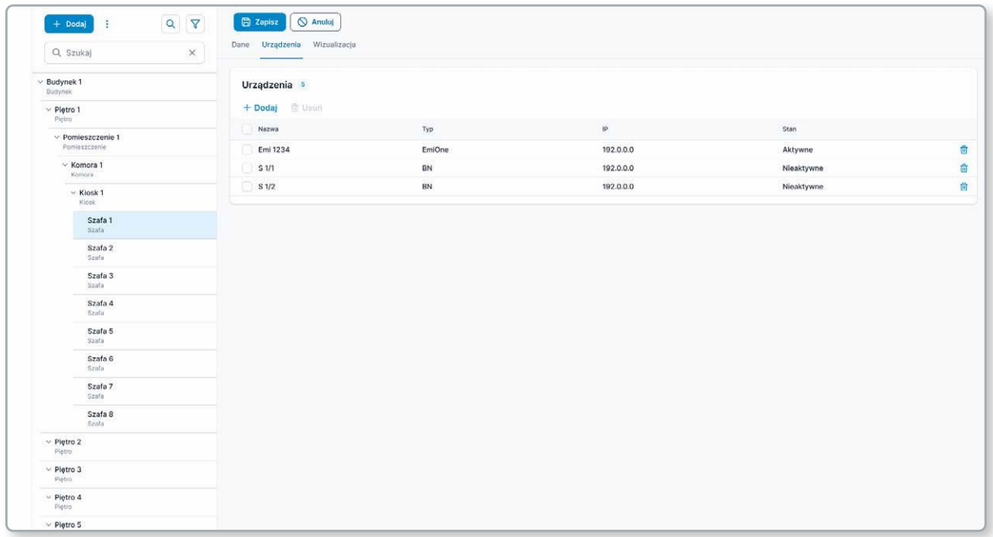


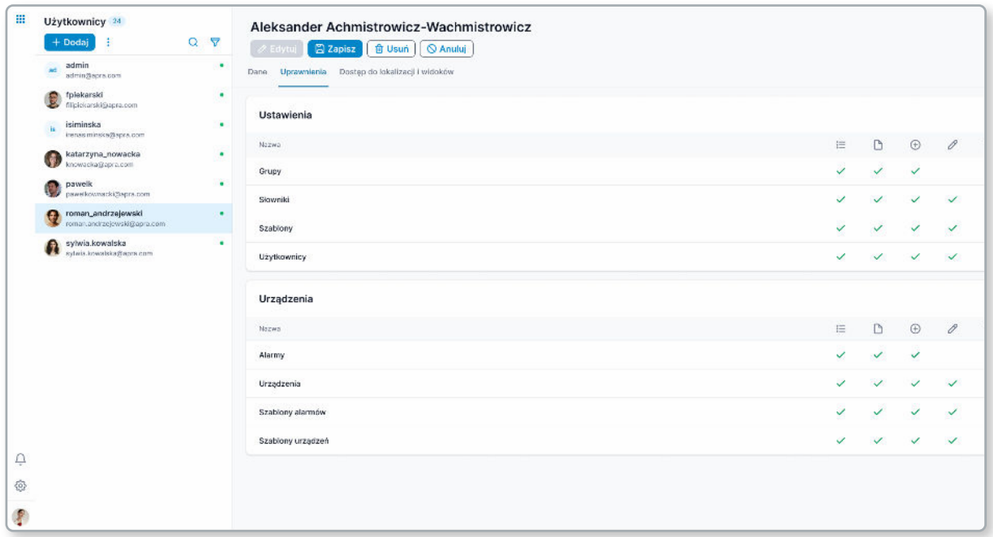

Lokalizacje
Dodaj
Szukaj
Budynek 1
Piętro 1
Pomieszczenie 1
Komora 1
Kiosk 1
Szafa 1
Szafa 2
Szafa 3
Szafa 4
Szafa 5
Szafa 6
Szafa 7
Szafa 8
Piętro 2
Piętro 3
Piętro 4
Szafa 1
Zapisz
Anuluj
Dane
Urządzenia
Wizualizacja
Uprawnienia
ID
Data utworzenia
Autor
Status
Aktywny
Dane podstawowe
Nazwa *
Szafa 1
Typ *
Szafa rack
Ilość U *
12
Zasób nadrzędny
Lokalizacja
Budynek 1 / Piętro 1 / Pomieszczenie 1 / Komora 1 / Kiosk 1 / Szafa 1
Opis

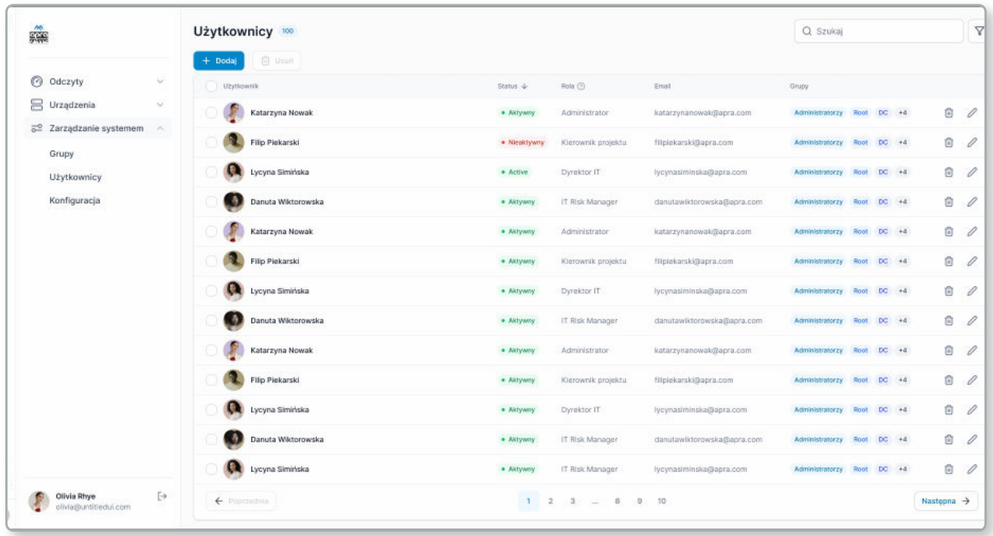

A1 Budynek
1 Piętro
Hala A Pomieszczenie
Serwerownia 1 Komora
Kiosk 1 Kiosk
SWG 1 Szafa
SWG 2 Szafa
SWG 3 Szafa
SWG 4 Szafa
Szafa 5 Szafa
SWG 6 Szafa
SWG 7 Szafa
SWG 8 Szafa
2 Piętro
3 Piętro
4 Piętro
5 Piętro
A2 Budynek
A3 Budynek
Grupy 3
Administratorzy APRA
Lokalizacje i widoki
Typ
Szafa 4
Budynek
Widok operatorski
Widok administratorski
PDU A
Komora
Kiosk
PDU B
Szafa
Operatorzy APRA
Operatorzy Enea

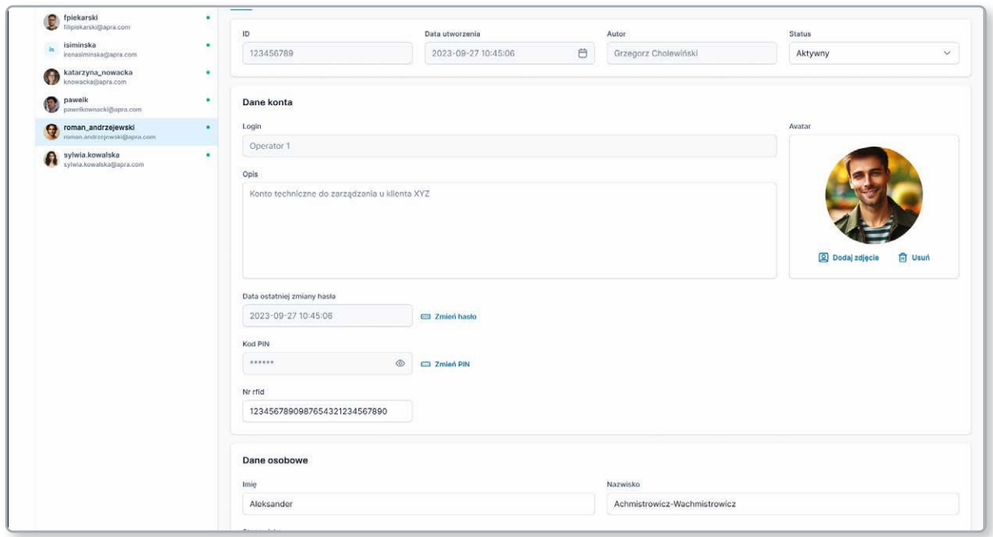

Urządzenia 100
Dodaj
EMI 1
EMI 2
EMI 3
EMI 4
EMI 5
EMI 6
EMI One SE
B0ADA07E
EMI 1
Zapisz
Usuń
Status
Konfiguracja
PDU
Kontrola dostępu
Konfiguracja etykiet PDU
Etykieta PDU A
PDU A
Etykieta PDU B
PDU B
Etykieta łączna
Łączna
Konfiguracja alarmów PDU
Parametr
Warunek
Histereza
Uruchom
O1 O2 O3 O4 Alarm Buzz Trap SMS Mail
Napięcie [V]
Mniejsza niż
238
V
5
Większa niż
253
Natężenie [A] dla fazy
12
A
1
15
Moc czynna [W] dla fazy
6000
W
200
7000

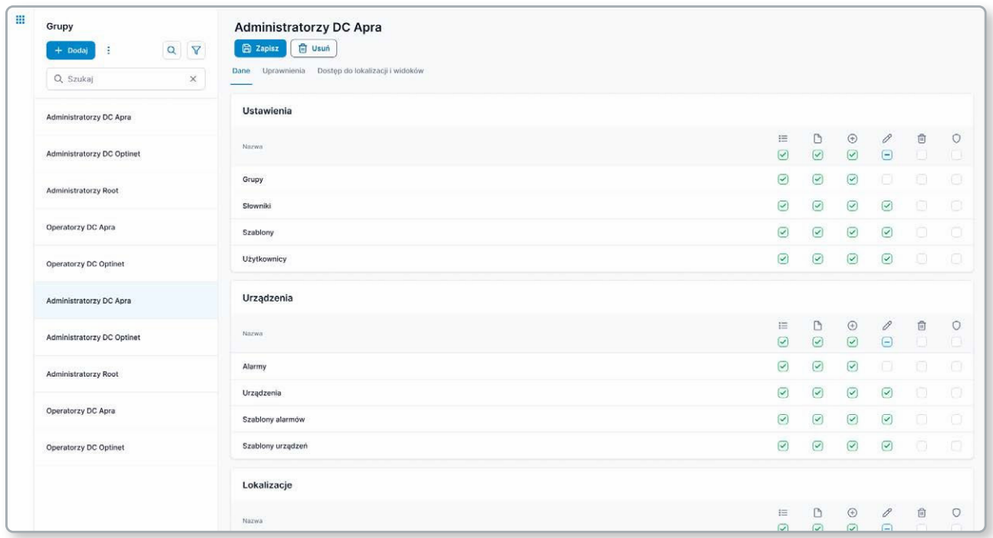

Wizualizacje 24
Dodaj
Budynek 1
Piętro 1
Pomieszczenie 1
Komora 1
Kiosk 1
Widok operatorski
Widok administracyjny
Szafa 1
PDU A
PDU B
Szafa 1
Przejdź do lokalizacji
Edytuj
Warstwy
100%
Pełny ekran
Otwórz w nowym oknie
Wolne
40 U
Energia czynna
1347134567134,78 kWh
Energia bierna
1347134567134,78 kVarh
Moc
2500W
Stan szafy
Drzwi tył
Drzwi przód
22,42 °C
64 %
18,07 °C
37 %
Tempratura i wilgotność tył
Tempratura i wilgotność przód
wilgotność
tempreatura
Listwa PDU A
Listwa PDU B
Fazy
Porty


Dodaj
Szukaj
Budynek 1
Piętro 1
Pomieszczenie 1
Komora 1
Kiosk 1
Szafa 1
Szafa 2
Szafa 3
Szafa 4
Szafa 5
Szafa 6
Szafa 7
Szafa 8
Piętro 2
Piętro 3
Piętro 4
Piętro 5
Zapisz
Anuluj
Dane
Urządzenia
Wizualizacja
Urządzenia 5
Dodaj
Usuń
Nazwa
Typ
IP
Stan
Emi 1234
EmiOne
192.0.0.0
Aktywne
S 1/1
BN
Nieaktywne
S 1/2


Użytkownicy 24
Dodaj
admin
admin@apra.com
fplekarski
fplekarski@apra.com
isiminska
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knowacka@apra.com
pawelk
pawelkowmarski@apra.com
roman_andrzejewski
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sylwia.kowalska
sylwia.kowalska@apra.com
Aleksander Achmistrowicz-Wachmistrowicz
Edytuj
Zapisz
Usuń
Anuluj
Dane
Uprawnienia
Dostęp do lokalizacji i widoków
Ustawienia
Nazwa
Grupy
Słowniki
Szablony
Użytkownicy
Urządzenia
Alarmy
Urządzenia
Szablony alarmów
Szablony urządzeń







EMI-Connect Software License

PN 925-434-00	EMI-Connect Software License for 1 RACK (EMI Family product group only)
PN 925-435-00	EMI-Connect Software License for 1 CONTAINMENT (EMI Family product group only)
PN 925-436-00	EMI-Connect Software License for 1 external device (PDU)
PN 925-436-10	EMI-Connect Software License for 1 external device (up to 10 parameters)
PN 925-436-20	EMI-Connect Software License for 1 external device (up to 25 parameters)
PN 925-436-30	EMI-Connect Software License for 1 external device (up to 50 parameters)
PN 925-437-00	EMI-Connect Software License (open)



Management Software Mini-Server

PN 925-417-00
PN 925-417-10 (PEtP)

Server specification:

- Intel Core i3-1215U 3.3 GHz CPU
- 4 cores
- 16 GB DDR4 RAM
- 512 GB SSD + 1TB HDD memory
- Gigabit Ethernet - Realtek RTL811E



Management Software 19” rack server

PN 925-448-00

Server specification:

- Intel Xeon Silver 4210R CPU
- 22 cores
- 2x16 GB DDR4 RDIMM, 3200 MT/s RAM
- 2x1.92 TB SSD memory
- Dual-Port 1 GbE LOM
- Hardware specification may vary based on the workload, environment and deployment scenario

Management software

Management Software Implementation

PN 925-444-00

- with respect to client requirements, a scope will differ for each project and related offer
- software implementation can include one or more of the listed services :
  - > management Software components installation on customer Hardware (most typically VM image)
  - > adaptation and configuration of EMI controllers within the application, visualization of parameters indicated by the customer
  - > adaptation and configuration of apra PDUs within the application, visualization of parameters indicated by the customer
  - > graphics layer design for main view screen on the basis of actual datacenter room / chamber layout
- in case of purchasing 'open' license - the implementation service also can include necessary programming tasks required to acquire data from 3rd party devices
- other, custom request like google maps integration, dedicated notification scheme etc.

Management Software Training - on site

PN 925-445-00

- Service of training from usage and configuration of apra Intrapp application
- Dedicated for both customer's IT management team and standard operators - users
- Cost calculated individually on the basis of training location
- Up to 20 participants

Management Software Training – remote

PN 925-445-10

- Service of training from usage and configuration of apra Intrapp application
- Dedicated for both customer's IT management team and standard operators - users
- Up to 20 participants

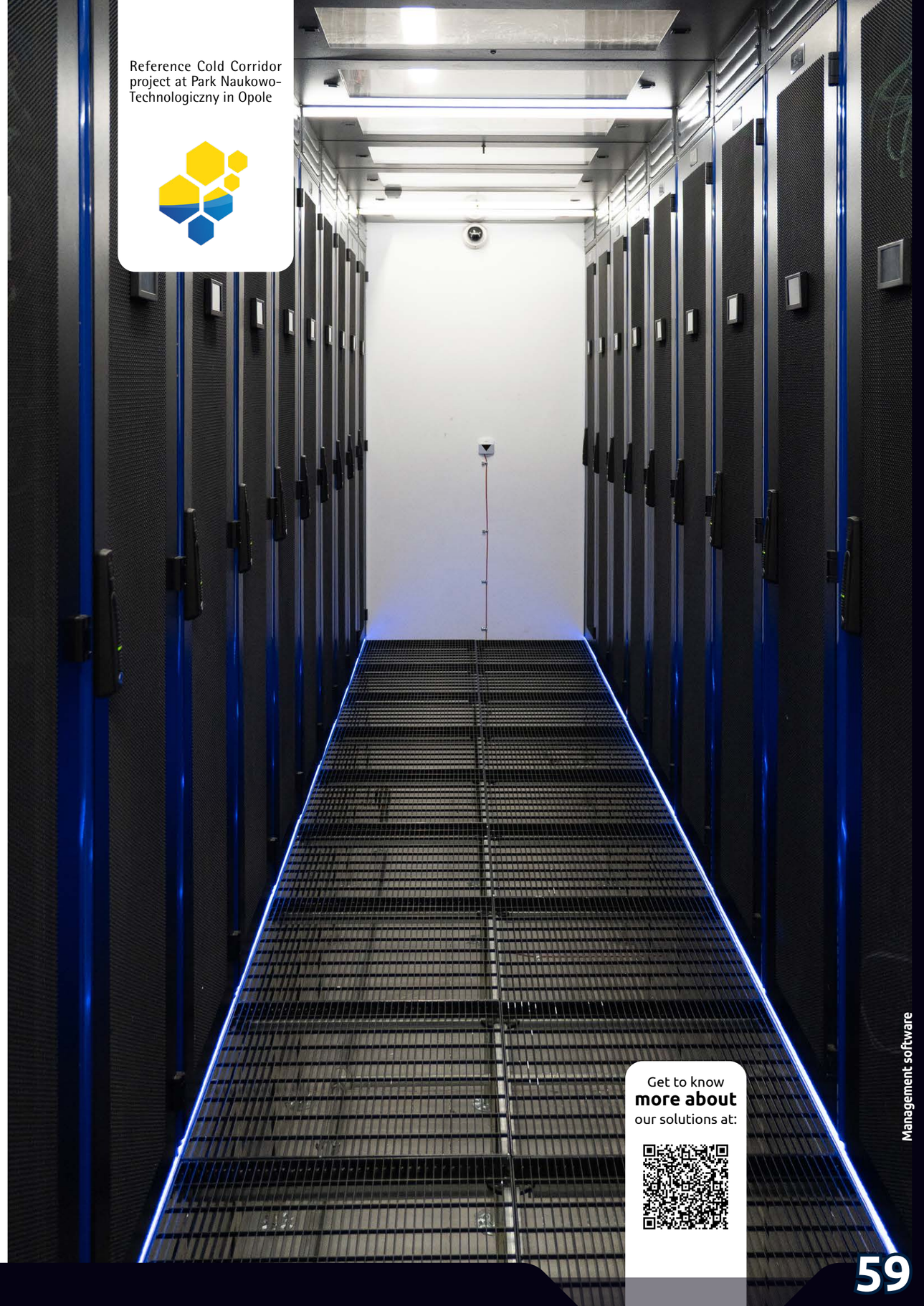
Management Software Additional Service (1 hour)

PN 925-446-00

- Management Software Additional Service (1 hour)
- Cost of additional tasks performed for the customer, that are not included within purchased Management Software Maintenance options

Management Software Maintenance Options

	Cabinets	1-20	21-50	51-100	>100
Standard Rection time 14 days	Service hours	**2 h** PN 925-447-10	**3 h** PN 925-447-20	**6 h** PN 925-447-30	**10 h** PN 925-447-40
Express Rection time 48 h	Service hours	**5 h** PN 925-447-50	**7 h** PN 925-447-60	**13 h** PN 925-447-70	**22 h** PN 925-447-80



Reference Cold Corridor project at Park Naukowo-Technologiczny in Opole

Get to know **more about** our solutions at:

Management software



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