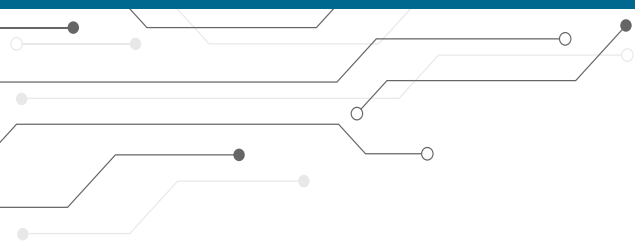


CX³ ENERGY MANAGEMENT SYSTEM



A SMART PLATFORM
FOR YOUR ENERGY
MANAGEMENT NEEDS



 **legrand**[®]

LIVE THE ADVANTAGE

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The Legrand
**ENERGY
MANAGEMENT**

system was created to supervise and manage energy consumption within the building, guaranteeing reliability and continuity of service for maximum efficiency.



KNOWING ENERGY
CONSUMPTIONS is the **FIRST STEP**
towards energy efficiency.

CONTROLLING THEM
is the **SECOND, ...**



The Legrand **solutions**

Legrand offers various solutions by which to **MEASURE and SUPERVISE** electrical systems that can adapt to all needs and ensure their full control and management.

The versatility of the Legrand solutions guarantees their interfacing with other ENERGY MANAGEMENT systems.



SIMPLE INSTALLATIONS THAT MEASURE CONSUMPTION

devices for the measurement of electrical magnitudes and data collection.

AUTOMATED INSTALLATIONS

devices for monitoring and automating distribution panels to guarantee continuity of service and a timely control of the installation.

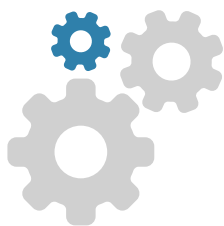
CENTRALISED INSTALLATIONS

systems for the all-round supervision of installations, able to offer all functions to allow for the optimal management of all devices.



ENERGY MANAGEMENT the actions...

The **Legrand CX³ EMS energy management system** allows you to control your installation in only a few steps.



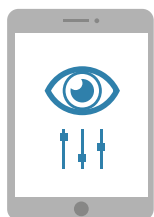
set

Set the system with functions that are customised to your needs.



configure

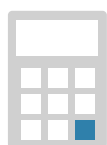
Programme all devices, locally and remotely, to be able to dialogue both with them and with other external systems.



supervise

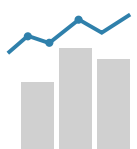
Monitor and control all processes by means of IT instruments to optimise energy consumption any time, anywhere.

... and the functions



register

Register the consumption of all the users of the installation.



measure

Measure analogue or electrical magnitudes (current, voltage, power, etc...).



signalling

Display the status of electrical protection devices or circuits, both locally and remotely.



control

Operate electrical protection devices or motorized controls, both locally or remotely, by means of manual or automatic actions.



communicate

Send all information remotely, out of the electrical switchboard.



display

Display the data locally or remotely, on built-in screens or on PCs, smartphones or tablets with an Internet connection.

ENERGY MANAGEMENT advantages

The CX³ EMS energy management system allows for the precise management and use of energy within a building. It allows full control of all activities in order to improve their functioning by anticipating possible breakdowns.

Counting and measuring consumptions to **REDUCE COSTS**



- **be aware** of its consumption;
- **control** consumptions;
- **adopt** a constant operating regime to smooth consumption over time.

Monitor and control the installation status to **ENSURE CONTINUITY OF SERVICE**



- **visualize** and assess technical alarms in real time;
- **know** installation status;
- **prevent** damage to parts of the installation.

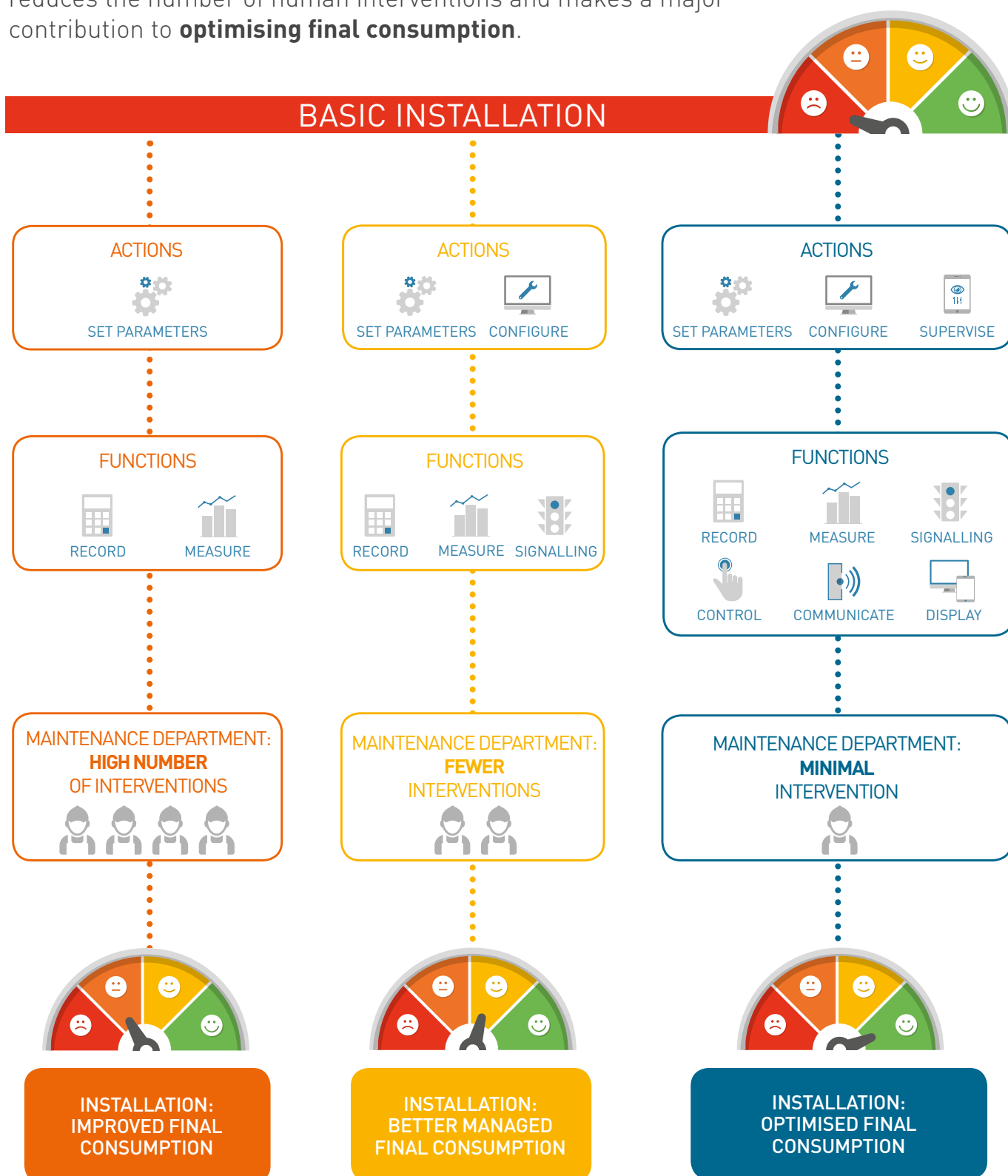
Analyse data to **IMPROVE PROCESSES**

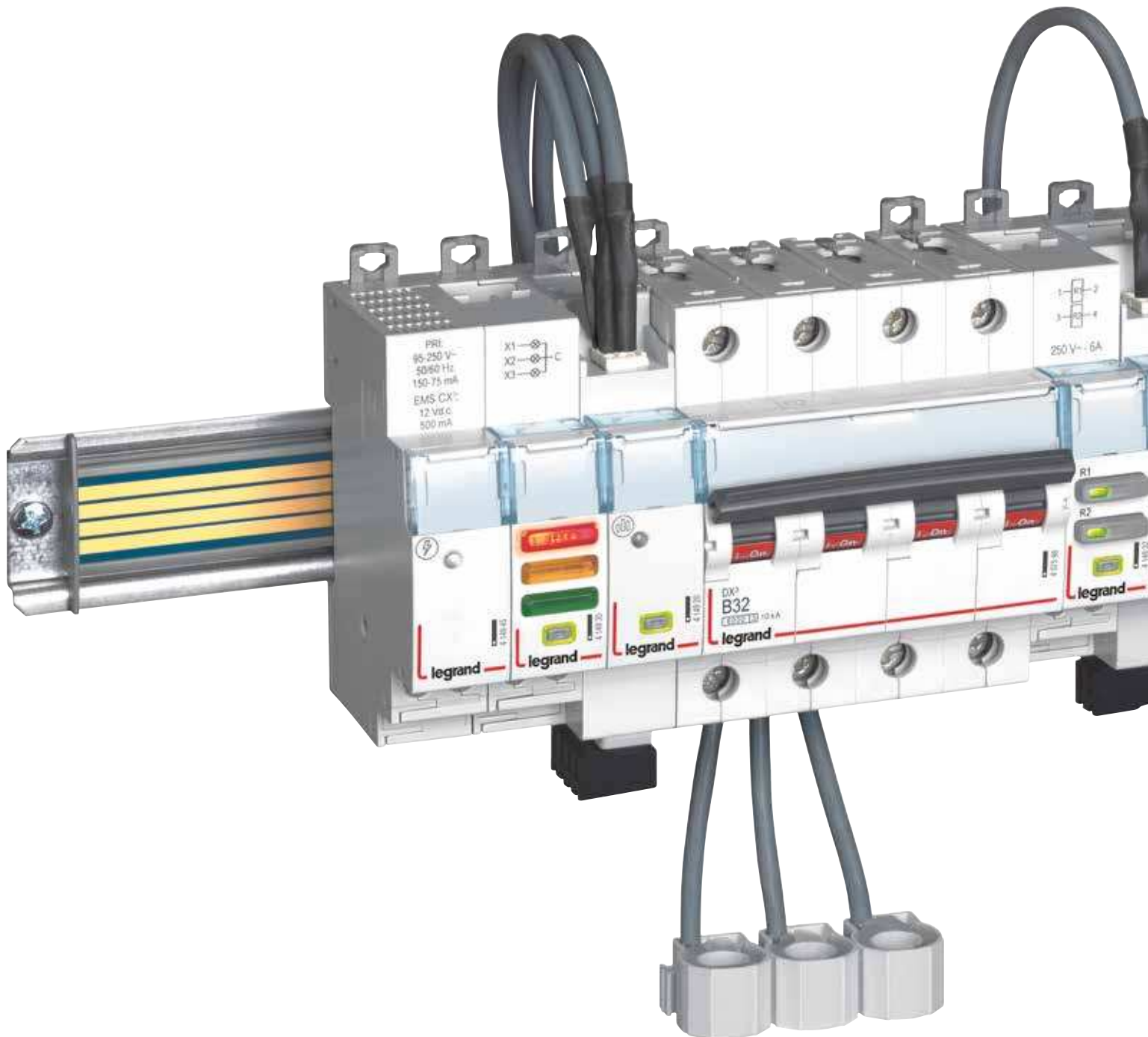


- **determine** annual energy needs to define a distribution of consumption;
- **analyse** the trend over time to control performance;
- **log** events to prevent critical issues.

MAXIMUM NUMBER OF FUNCTIONS AND ACTIONS = MINIMUM NUMBER OF INTERVENTIONS AND CONSUMPTION

In an electrical infrastructure, having more functions and actions reduces the number of human interventions and makes a major contribution to **optimising final consumption**.

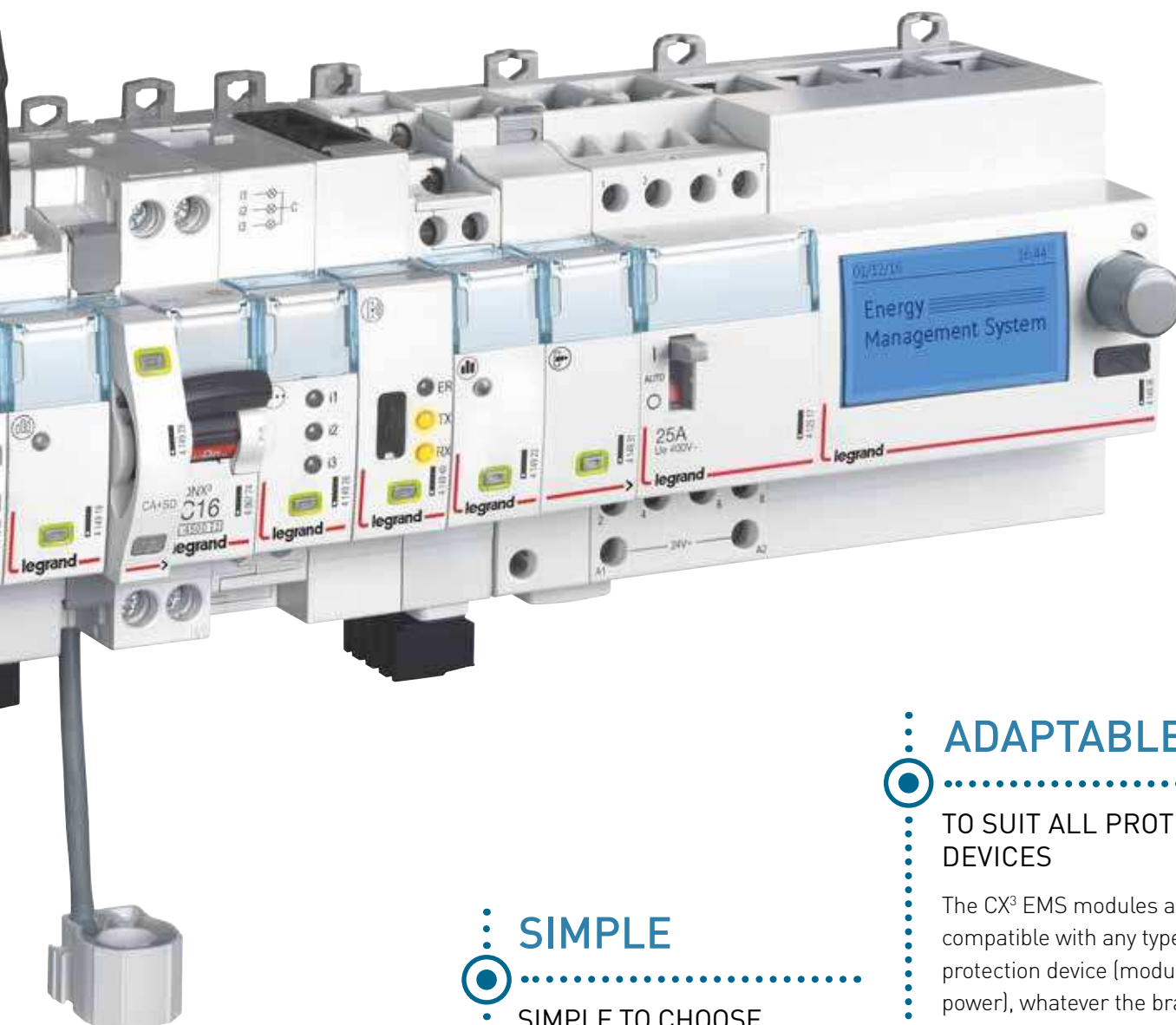




CX³ EMS

a new **supervision** system

CX³ EMS is the new **simplified supervision system** able to display, measure and control the installation from a remote or local position. An autonomous system able to be integrated, which, thanks to the innovative automatic connection system, simplifies the assembly stages and requires no change in the wiring of existing panels.



COMPLETE AND COMPACT

The new **CX³ EMS supervision system**, with its extremely compact design, can offer all functions to allow for complete installation supervision.

- measurement
- status (ON/OFF/fault)
- control
- pulse count
- serial communication
- display

SIMPLE

SIMPLE TO CHOOSE

Only 8 modules with dedicated functions to supervise all installations.

SIMPLE TO INSTALL

Quick, pre-cabled connections on rail or with patch cords that do not hinder electrical switchboard cabling.

SIMPLE TO CONFIGURE

Configuration both directly from the panel without the help of a PC and via dedicated software that can be downloaded from the Legrand website via E-Catalogue.

ADAPTABLE

TO SUIT ALL PROTECTION DEVICES

The CX³ EMS modules are compatible with any type of protection device (modular or power), whatever the brand.

FOR NEW AND EXISTING PANELS

The compact dimensions and the possibility of connecting the system via 2 different solutions make it easy to install in new or existing switchboards.

CX³ EMS

complete, compact
and **multifunctional**



MEASUREMENT



SIGNALLING



With the same performance as the "classic" models of measuring units, the CX³ EMS measuring modules can be used to measure the electrical energy consumed by a single-phase or three-phase circuit and the different electrical values:

- Active (kW), reactive (kVAR) and apparent (kVA) power on all phases or cumulative
- Simple and compound voltages
- Current consumption on each phase
- Frequency and Cos ϕ
- Harmonics

Concentrator module for energy count by means of pulses: collects data from meters with pulse output like electrical energy meters or water and gas meters.... Up to 3 pulse circuits.

Compact modules indicating the status of the associated device:

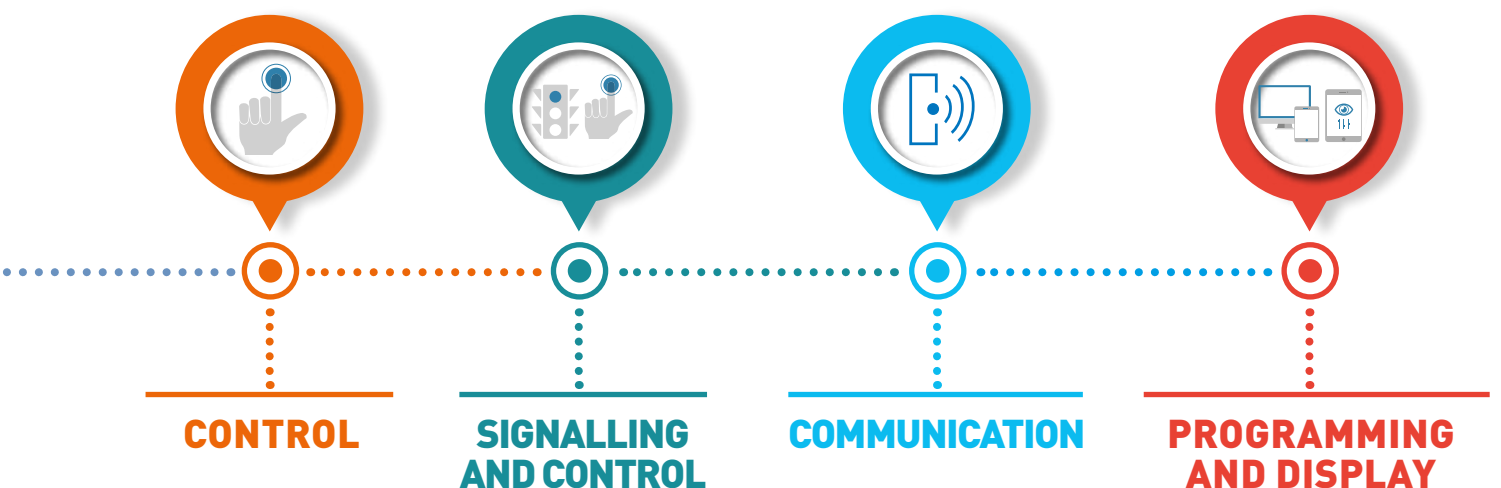
Contacts:

- open
- closed
- triggered

In addition, for the LED version:

- MCCB plugged-in / drawn-out
- springs loaded for opening / closing of ACBs

All the modules of the **new CX³ EMS supervision system** have compact dimensions, in order to limit as much as possible the space used in the telecontrol switchboard.



Universal control module. Enables to remotely control different electrical loads such as relays, contactors, and motorised controls of modular or power circuit breakers, whatever their brand.

The control and state reporting module is used to remotely control and display the status of the Legrand 1 and 2-module contactors up to 25 A, as well as pulse operated latching relays.

The EMS CX³ / RS 485 communication interface allows the conversion of data from the EMS CX³ network to the MODBUS RS 485 network, in order to display and operate the data outside the electrical enclosure.

Stand alone configuration module for the control of the entire installation, locally, in the enclosure:

- system configuration
- test
- consumption display
- alarm control
- device control
- memory storage of the alarms

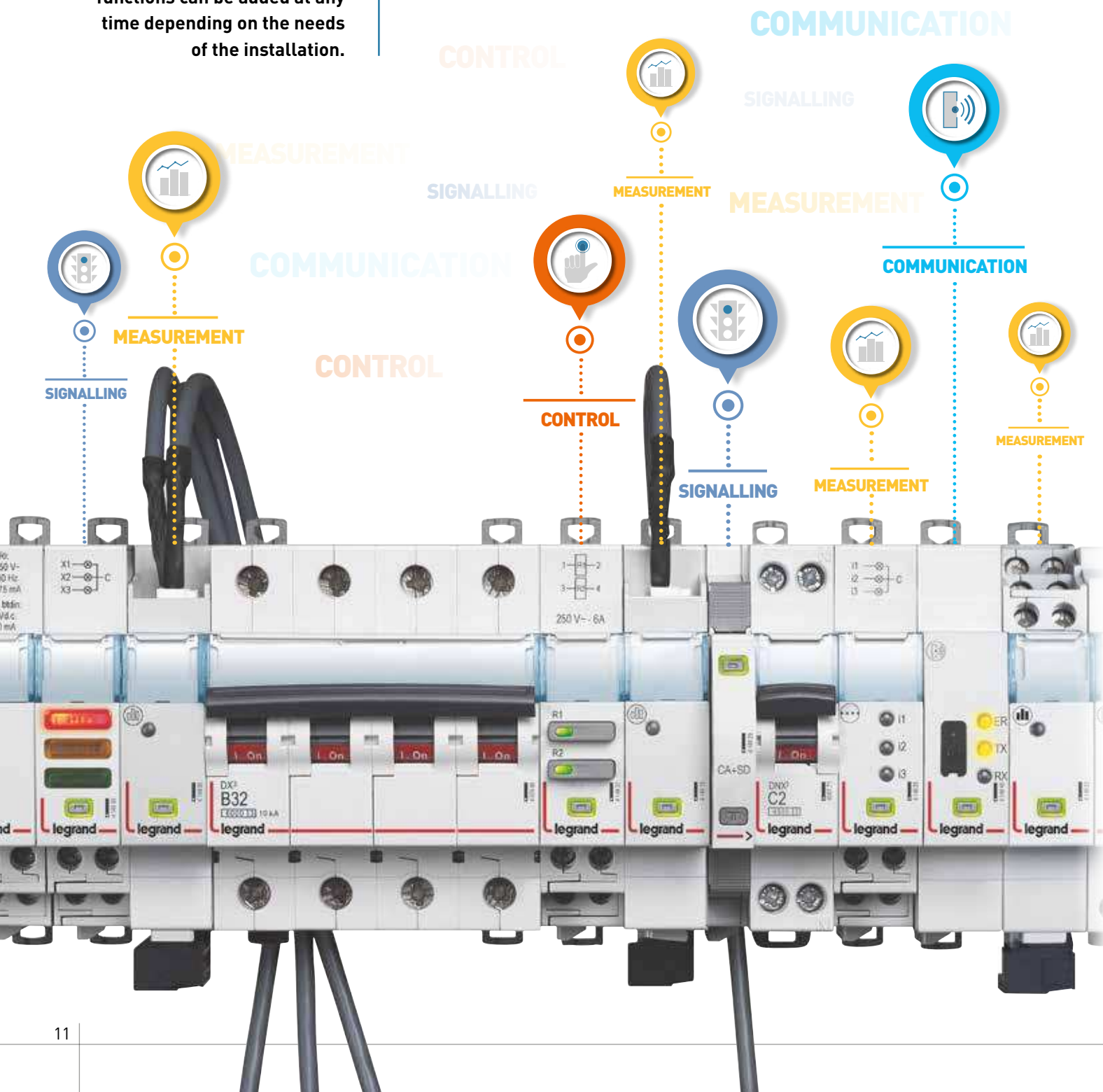
CX³ EMS

simple to choose...

The CX³ EMS system **does not require a minimum number of modules** and it also allows very simple monitoring.

Thanks to its scalability, **new functions can be added at any time** depending on the needs of the installation.

The CX³ EMS system consists of DIN rail mounting modules.



...simple to install

Quick and simple data connection

In both cases, the data connection is simple and immediate and **does not require any other additional space in the electrical enclosure.**

In the case of the communication rail, the connection is made automatically via the rear contacts, when the CX³ modules are fixed on the DIN rail of the electrical panel.

The **CX³ EMS** system is powered at safety extra low voltage (SELV) and has 2 types of connection:

- by means of the innovative **communication rail** system
- by means of the quick fit **patch cords**.

COMMUNICATION RAIL

Connection is made automatically with the connectors at the back side of the CX³ EMS modules.

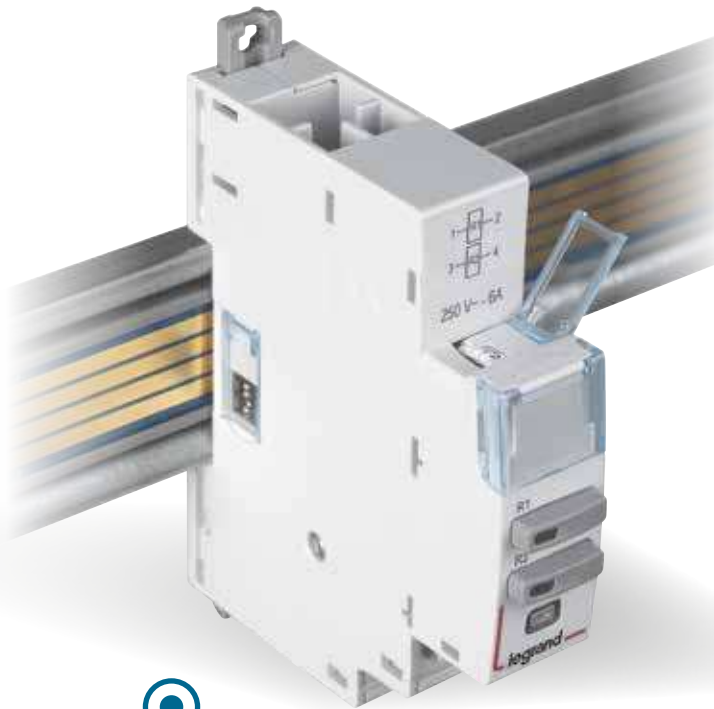
PATCH CORDS

All CX³ EMS modules are equipped at the bottom with ports for connection to the bus via patch cords.

CX³ EMS

simple to configure

The CX³ EMS system has been developed in order to be able to manage, simply and immediately, all functions, both from the electrical panel without using a PC and by means of a free of charge software with external devices.



PROGRAMMING AND DISPLAY

The stand alone EMS configuration module allows to configure the system and to visualize all installed modules, without need of any IP or PC connection.



FUNCTION CONFIGURATION

The universal signalling and control modules include 4 DIP switches that enable different function types to be set.



ADDRESS CONFIGURATION

All modules are equipped with a selector for configuring the address locally. This configuration can also be done remotely via PC.



FUNCTION

All modules are also equipped with a multifunction 3-colour LED button to instantly identify the operating status: correct operation, stand-by, being programmed, being updated, no EMS communication, etc.



adaptable for all installations

The **CX³ EMS** modules are optimised for installation on DIN rail associated with DX³ MCBs, but can also manage **power circuit breakers like DPX³ and DMX³.**



SIGNALLING

The universal, configurable signalling module can be associated with all type of signalling auxiliaries of DIN rail mounting MCBs or power circuit breakers:

- DX³
- DPX³
- DMX³



CONTROL

Enables to locally or remotely control different electrical loads or motorised controls associated to DIN rail mounting protection devices or head equipment. Equipped with DIP switches (on the side) allowing product configuration:

- the contact type
- the function (maintained or momentary contact)



MEASUREMENT

The high current measurement module with external CTs enables the measurement by means of CT with KTA ratio of up to 6400 A, which can therefore also be used in large power centre panels.



CX³ EMS

application examples

EXAMPLE

1

“STAND-ALONE” CONFIGURATION



IDEAL FOR INDIVIDUAL INSTALLATIONS

WHERE THERE IS A LOCAL NEED TO:

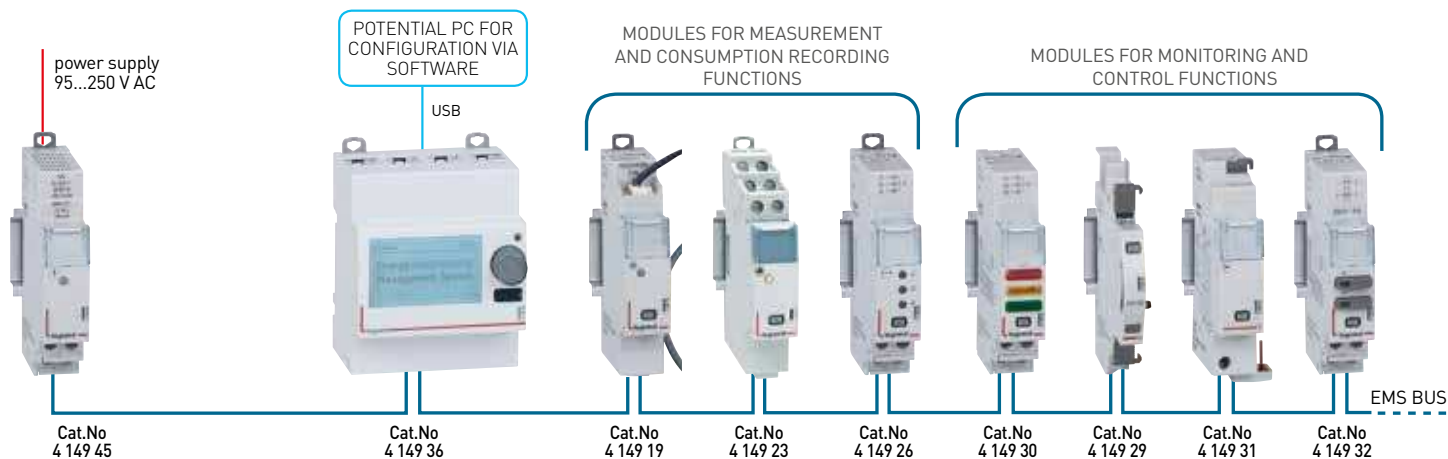
- monitor parameters (electricity, water, gas, calories, etc.) of consumption and/or production
- check the status of various devices (switches, contactors, relays, end runs, etc.)
- locally control various devices (switches, contactors, relays, etc.)
- register alarms (up to 20)
- generate simple load control automations
- configure the installation simply

Scope of application:

Residential buildings and small commercial businesses potentially with photovoltaic and/or thermal solar energy production plants.

Installation

- maximum capacity for expansion: **32 devices**
- maximum distance between two devices: **3 m**
- maximum consumption of the entire system: **1500 mA, divided up into 3 inter-connected groups**
- maximum consumption of each group: **500 mA supplied by a single power supply (Cat.No 4 149 45)**



EXAMPLE

2

CONNECTED CONFIGURATION



IDEAL FOR INDIVIDUAL INSTALLATIONS WHERE, IN ADDITION TO THE SERVICES DESCRIBED IN EXAMPLE 1, THE FOLLOWING IS REQUIRED:

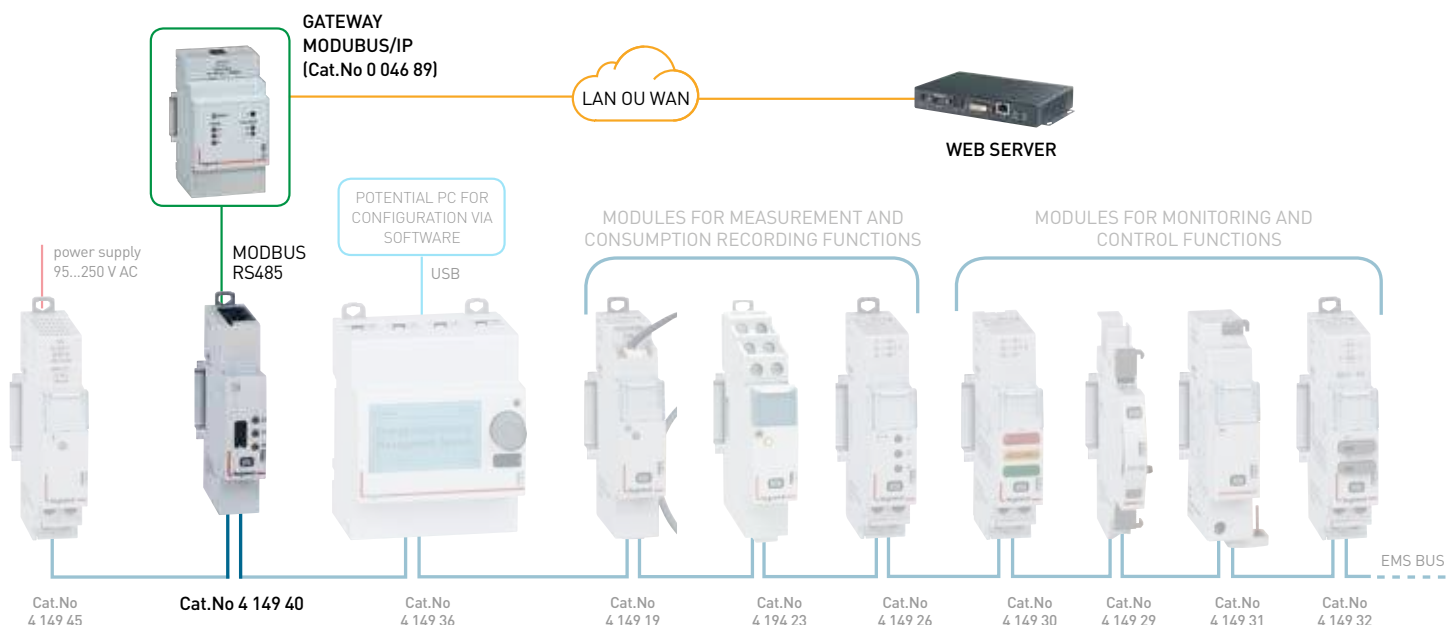
- record the trend of various electrical parameters (voltage, current, power, power factor, frequency, harmonic distortion rate, etc.)
- create histograms and energy reports
- record events and alarms
- save data to files and automatically send out e-mails/text messages
- implement automation and load management systems
- access the system via various devices (smartphones, tablets, PCs, etc.)

Scope of application:

Residential buildings and small commercial businesses where the need, above all, is to make installation monitoring and control possible from a remote position.

Installation

- maximum expansion possible: **32 devices**
- maximum distance between two devices: **3 m**
- maximum consumption of the system: **1500 mA, divided up into 3 inter-connected groups**
- maximum consumption of each individual group: **500 mA supplied by a single power supply (Cat.No 4 149 45)**



CX³ EMS

application examples

EXAMPLE

3

“ON-LINE” CONFIGURATION



IDEAL FOR INSTALLATIONS WHERE, IN ADDITION TO THE SERVICES DESCRIBED IN EXAMPLE 2, IT IS POSSIBLE TO INTEGRATE INDIVIDUAL BUS EMS SYSTEMS BETWEEN THEM AND OTHER MODBUS DEVICES ABLE, FOR EXAMPLE, TO:

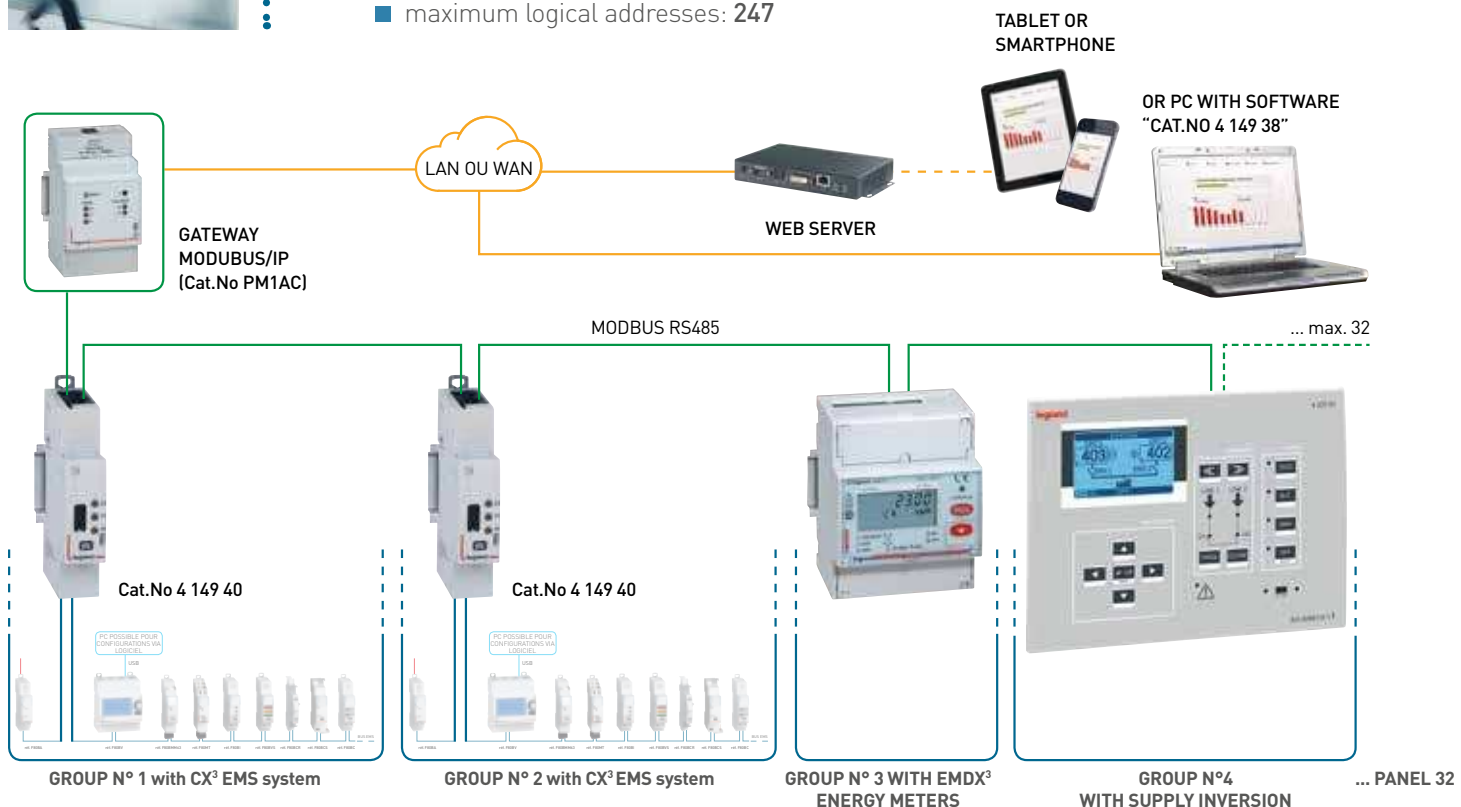
- ensure additional measurement and control functions
- manage and monitor the parameters of the electronic protection relays typical of large switches (boxed and open)
- manage and monitor the automatic switching parameters between two power sources, etc.

Scope of application:

Buildings with simple installations, also consisting of several electric cabinets, with the need to control and monitor electrical loads.

Installation

- maximum capacity for expansion: **32 MODBUS devices**
- maximum length of RS485 bus: **1000 m**
- maximum logical addresses: **247**



EXAMPLE

4

“MULTI-SITE” CONFIGURATION



IDEAL FOR INDIVIDUAL PLANTS WHERE, IN ADDITION TO THE SERVICES DESCRIBED IN EXAMPLE 3, THE FOLLOWING IS REQUIRED:

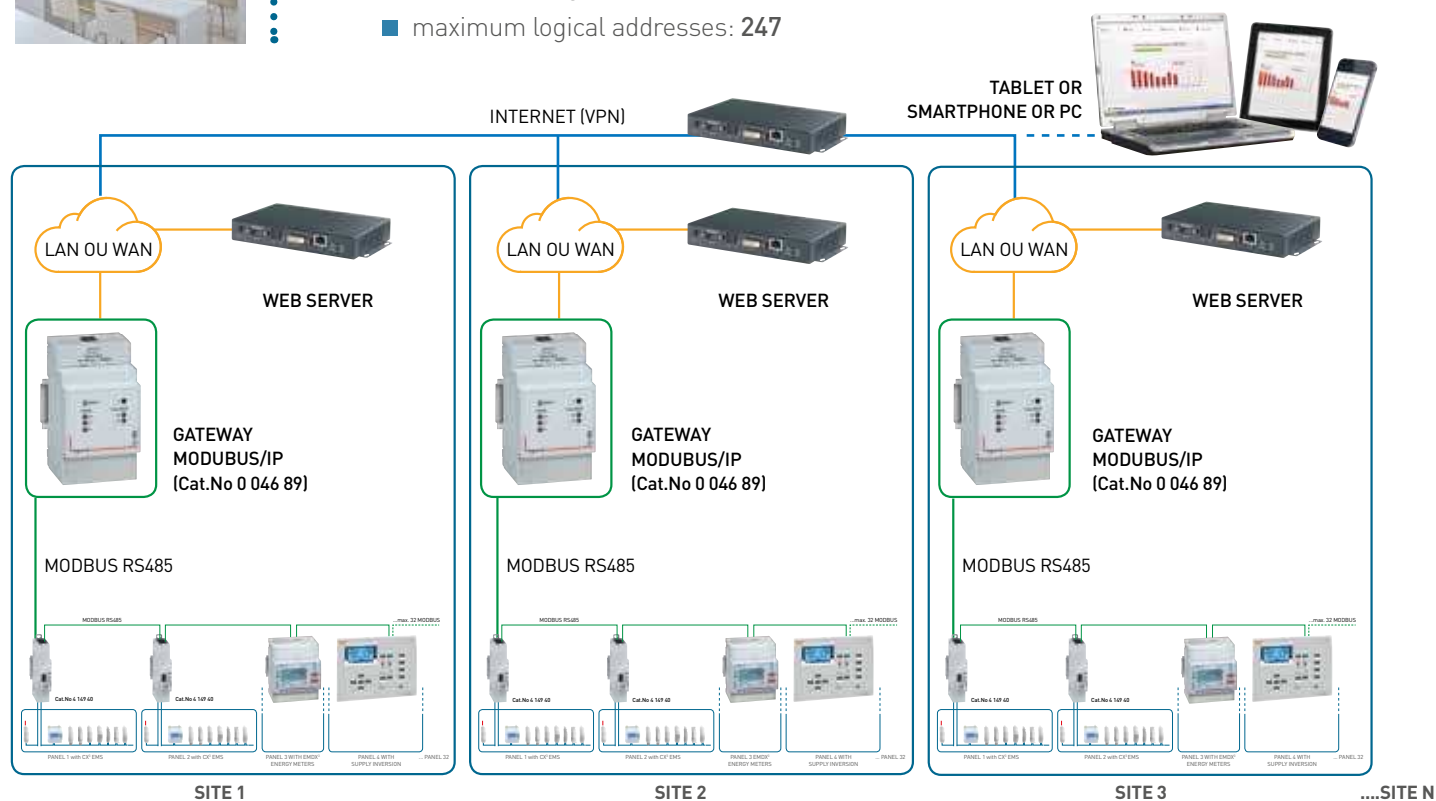
- remotely manage individual installations situated in different locations with the help of devices (smartphone, tablet, PC, etc.) connected to the Internet
- have several levels of visualization: local (1 site) or remote, with a multi-site “administrator” view.

Scope of application:

Sites (bank branches, fuel sales points, chains of stores or restaurants, schools, etc.) with simple installations requiring supervision by a single administrating entity

Installation

- maximum capacity for expansion: **32 MODBUS devices - 32 devices**
- maximum length of bus RS485: **1000 m**
- maximum logical addresses: **247**



CX³ energy management system



Conform to IEC/EN 61131-2 (Programmable controllers)

CX³ energy management system enables to measure, control and visualize the state of 4 rail mounting protection devices (MCBs, RCCBs, RCBOs, etc...) and head equipment (DMX³ and DPX³), locally ("Stand alone") or remotely. All the modules of the system are equipped with two specific communication ports: one at the backside (for communication rail) and one underneath (for communication patch cords). Power supply with specific module Cat.No 4 149 45 (p. 93).

Remote configuration possible with the help of the Energy Management Configuration Software, available for free download via E-Catalogue (giving also access to a 30-day trial version of Energy Management Software Cat.No 4 149 38/39)

Pack	Cat.Nos	Measurement modules	Pack	Cat.Nos	Universal control module	Number of modules
1	4 149 19 ¹	For measuring current, voltage, active/reactive power and other values Conform to IEC/EN 61557-12 Accuracy: class 0.5 Direct connection up to 63 A Single-phase measuring module and closed Rogowski coil up to 63 A Consumption: 0.409 W - 34.1 mA (12 V =)	1	4 149 32 ¹	2 relays: 240 V A - 6 A Enables to remotely control different electrical loads or motorised controls associated to 4 rail mounting protection devices or head equipment (DPX ³ MCCBs) Equipped with DIP switches (on the side) allowing product configuration: contact type (NO + NC, 2 NO, etc...) and function (maintained or momentary contact) Consumption: 0.456 W - 38 mA (12 V =)	1
1	4 149 20 ¹	3-phase measuring module and closed Rogowski coil up to 63 A Consumption: 0.418 W - 34.8 mA (12 V =)	1			
1	4 149 23	Connection with CT 5 A measuring module connected via current transformers (CT) Consumption: 0.391 W - 32.6 mA (12 V =)	1			
1	4 149 26 ¹	Pulse concentrator For collecting and transmitting measurements taken by universal pulse energy meters (water, gas, etc...) Up to 3 pulse circuits Consumption: 0.288 W - 24 mA (12 V =)	1	4 149 31 ¹	Control and state reporting module For CX³ latching relays and 1 and 2-module contactors up to 25 A Indicates the position of the contacts and enables remote control of its associated product Equipped with DIP switches (on the side) allowing product configuration: selection of the main product (latching relay or contactor). To fit on the left-hand side of the CX ³ latching relays and contactors Consumption: 0.372 W - 31 mA (12 V =)	1
1	4 149 29 ¹	State reporting modules Auxiliary + fault signalling contact Indicates the position of the contacts and the fault tripping of its associated device. To fit on the left-hand side of DX ³ MCBs, RCCBs, RCBOs and isolating switches Consumption: 0.236 W - 19.7 mA (12 V =)	0.5		1 : Enables upstream busbar connection	
1	4 149 30 ¹	Universal signalling module Equipped with 3 LED lights: green, red and yellow Indicates various type of information, according to selected configuration: contacts position, plugged-in or drawn-out product, etc... Equipped with DIP switches (on the side) allowing product configuration: selection of information type and of the LED behaviour Compatible with 4 rail mounting protection devices or head equipment (DMX ³ and DPX ³) Consumption: 0.377 W - 31.4 mA (12 V =)	1			

CX³ energy management system (continued)



Conform to IIEC/EN 61131-2 (Programmable controllers)

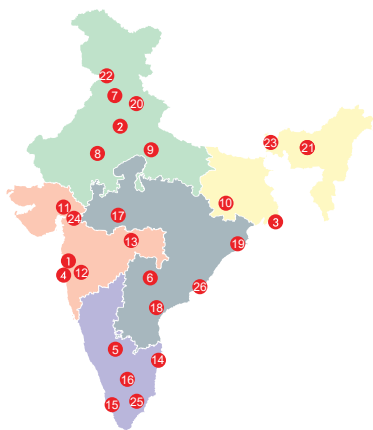
CX³ energy management system enables to measure, control and visualize the state of 4 rail mounting protection devices (MCBs, RCCBs, RCBs, etc...) or head equipment ((ACBs, MCCBs, etc...), locally ("Stand alone") or remotely. All the modules of the system are equipped with two specific communication ports: one at the backside (for communication rail) and one underneath (for patch cords).

Power supply with specific module Cat.No 4 149 45 (p. 93)

Remote configuration possible with the help of the Energy Management Configuration Software, available for free download via E-Catalogue (giving also access to a 30-day trial version of Energy Management Software Cat.No 4 149 38/39)

Pack	Cat.Nos	Stand alone configuration module	Pack	Cat.Nos	Communication interfaces
1	4 149 36 ¹	4 rail mounting Optional module for "stand alone" supervision need Enables to configure, test and control CX ³ energy management system and to visualize supervision data No computer or IP connection required Consumption: 0.438 W - 36.5 mA (12 V =)	1	4 149 40	RS485 / CX³ energy management system RS485 / CX ³ energy management system conversion Consumption: 0.344 W - 28.7 mA (12 V =)
1	0 261 56	Door mounting touch screen Optional touch screen allowing to: - visualize information coming from DX ³ , DPX ³ and DMX ³ protection devices and EMDX ³ multi-function measuring units and - control protection devices equipped with the universal control module Cat.No 4 149 32 (p. 92) Can manage up to 9 devices Power supply: 18-30 V = IP connection For mounting on door or solid faceplate Door cut: 92 x 92 mm	1	0 046 89	RS485 / Ethernet RS485 / Ethernet conversion (for connection to an IP network)
1	4 149 38	Remote configuration and supervision Energy management software for 1 computer (user key) Allows remote configuration, test, control and visualization of data collected from EMDX ³ electrical energy meters and multi-function measuring units and CX ³ energy management system on one computer connected to the network 30-day free trial version available for download via E-Catalogue Software licence agreement (user key) for 32 Modbus addresses or 32 pulse modules	1	4 149 45	Power supply module 500 mA 12 V = stabilized power supply module for CX ³ energy management system
1	4 149 39	Software licence agreement (user key) 255 Modbus addresses or 255 pulse modules Energy management multi-support web servers Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers of data converter Features In-built IP convertor Power supply: 9 to 28 V= with the help of a single-phase switching mode power supply Cat.No 1 467 21 to be ordered separately With the Legrand Power supervision system, circuit breakers are integrated in a supervision system You can therefore check the status of the circuit breakers, measure the electrical values and control the circuit breakers remotely MODBUS protocol	1	4 149 01 ²	Connection accessories Communication rails To be fitted on 4 rail or spacer Allows data transmission between the different modules of CX ³ energy supervision system 18 modules 24 modules 36 modules
1	4149 47	For 10 Modbus addresses or 10 pulse modules	1	4 149 02 ²	Communication patch cords Allows data transmission between the different modules of CX ³ energy supervision system Can be used instead of communication rails or to create a link between two rows (individually connected with communication rails) Length 250 mm Length 500 mm Length 1000 mm
1	4149 48	For 32 Modbus addresses or 32 pulse modules	1	4 149 03 ²	Communication patch cord connector Enables to extend communication patch cords length by clipping them together Max. length: 3 m
1	4149 49	For 255 Modbus addresses or 255 pulse modules Supplied with external power supply and fixing brackets	1	4 149 10	Plastic cover for communication rail Must be used for protection of the unused parts of the communication rail Length: 36 modules Can be cut to the required length. Fixing: direct clip on to the rail
			1	4 149 14	2 : For other lengths, please consult us

1 : Enables upstream busbar connection



Head offices

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Website : www.legrand.co.in

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(011) 2699 0028 / 29 / 30 / 31
Fax : (011) 2699 0047
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KOLKATA – 700 098.
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Fax : (033) 4021 3537
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Near Mirador Hotel, Chakala,
Andheri Ghatkopar Link Road,
Andheri – East, **MUMBAI** – 400 099.
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RANCHI – 834 001.
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NAGPUR – 440 010.
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GUWAHATI – 781 007.
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Madhok Complex, Ferozpur Road,
LUDHIANA – 141 001.
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23. 94, Udhm Singh Sarani,
Ground Floor, Ashrampara,
SILIGURI – 734 001.
Tel : (0353) 264 1067
24. 405, City Centre, Sosyo Circle,
Udhana Magdalla Road,
SURAT – 395 002.
Tel : (0261) 263 3861
25. Aparna Towers, 1st Floor, 2/3,
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MADURAI – 625 010.
Telefax : (0452) 230 8414
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Tel : (0891) 663 5652 / 663 9363 [INTEL](#)

Technical assistance from Legrand

Telephonic technical assistance for selection of products, technical information, guidance, wiring diagrams and estimation is now made available to you at each Regional Office. Contact the Technical Officer of Legrand at the following telephone numbers

New Delhi : Tel.: (011) 2699 0028, 3990 2200
Kolkata : Tel.: (033) 4021 3535 / 36
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For other places, contact the nearest
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