

STATIC ENERGY METERS CONTO

ENERGY METERS
FOR SINGLE AND
THREE PHASE
NETWORK



ENERGY METERS CONTO



► NEW ◀

New energy meters
New graphic and more intuitive displays

► Energy meters

Family of smart meters that, in addition to energy counting, offer a complete overview of the main electrical quantities.





MID certification

The range includes bi-directional multi-measure energy meters certified to the European Directive 2014/32 / EU, usable for counts for fiscal purposes.

Direct measurement up to 125 A

The offer includes single-phase and three-phase meters with direct connection up to 125A and insertion meters via CT/VT.

Energy management

Thanks to the models equipped with RS485 Modbus RTU or M-Bus communication, the energy meters can be integrated into energy monitoring systems.

For models equipped with RS485 Modbus communication, it is possible to combine the RS485 / Ethernet network interfaces or the WebServer to allow management from a PC or tablet via web pages.

CONTO

New energy meters

The CONTO range of energy meters is renewed with new, more performing and modern devices. The new devices, completely modernized from an aesthetic point of view, offer state-of-the-art performance and new functions, which meet the different needs in measuring electrical parameters.



Main features

The main features of the range are:

- Backlit graphic display
- Measurement on 4 quadrants
- Multi-size
- MID certified versions
 - Class B according to EN50470 (MID version)
 - Class 1 according to EN / IEC 62053-23
- Standard sealable terminal blocks
- Versions with pulse output or Modbus or Mbus communication. Through dedicated interfaces it is possible to communicate with Ethernet or KNX protocols.
- 1 measurement input of other quantities such as water or gas or alternatively double tariff entry.

Application

- Industrial application for the division of energy consumption by cost center
- On board the machine for precise control of consumption
- Residential to share main meter consumption (residences, camping, etc.)
- Applications for fiscal use (UTF certifications) to obtain reimbursements or incentives for the energy produced by generators or renewable energy.



CONTO

More functions... New design

New features are available for the CONTO static energy meters.

The interfaces are intuitive and simple. indications on the display are clear and easy to manage. The new range includes devices with Mbus or RS485 Modbus communication and in this case it is possible to integrate the catalog web servers.

NEW DISPLAY AND NEW DESIGN

- Backlit display
- Simplified reading mode, preview of the next page, settings
- Bidirectional measurement (E + and E-)
- 9-digit display
- Partial measurement of the active and reactive energy



COMMUNICATION

Modbus or Mbus or impulse

Built-in 120 Ω termination resistance in prog menu

INTEGRATED IMPULSE INPUT

1 inlet for measuring gas or water or the like.

Alternatively, the entrance can be used to manage the double tariff



Main functions

The main functions of the range are:

Three-phase network

Choice of the wiring in base to the needs.
The same device can be programmed and installed in different kind of networks.

Energy management

Easy and quick installation with WebServers (10, 32 and 255 measure points) with direct and integrated Modbus port on board.

Memory

All the new CONTO meters save the data of total energies (actives and reactivities; positives and negatives) to a not-volatile memory on board to the device. The value of partial energies can be resetted in function to the needs.

MID certification

CONTO Static meter offer guarantees accuracy and reliability of measurement.
Thanks to European directive homologation 2004/22/CE MID can be used for tax purpose.
The static meter are equipped by tamper-proof component in order to prevent fraud.

Display

The energy values are all shown with 9 digits allowing a longer duration of the device.



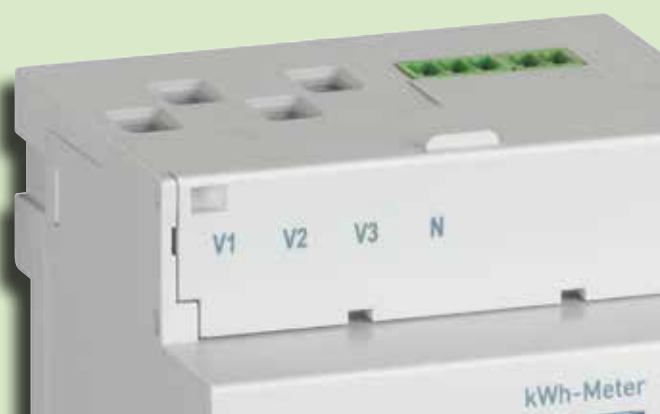
SIMPLIFIED HMI

- Press 1 button to navigate or enter the setup mode



NEW CONNECTORS

Same section for phase and neutral terminals



WEBSERVER

For control and manage of the consumptions

With the web server integrated with the new range of **ENERGY METERS**, is possible:

- analyze data and improve process
- determine the annual energy needs to define the consumption distribution,
- analyze the evolution over time to control the performances,
- manage multisite electrical installations remotely and / or locally using smartphone, tablet, PC, etc.

The energy meters are mainly used for measure, record and transmit values like active and reactive energy or power, voltages and currents. The new CONTO are able to collect pulse from water or gas meters to have a complete view of the consumption of the building. To do this, the new CONTO meters are equipped by different protocols pulse, Modbus or Mbus.



Allow **remote configuration, test, control and visualization**, via a **web browser** on several devices; PCs, Smartphone, web viewers, data collected from IME devices: Meters Conto, Multifunction NEMO, NEMO SX Measure system.

Pop-up alarms available with Telegram Smartphone app (configuration through the Web Server and only with Nemo SX)



Web server for 255 Modbus addresses or 255 pulse modules (item code **SXWS255**)



Web server (DIN version) for 10 (item code **SXWS10**) or 32 Modbus addresses or pulse modules (item code **SXWS32**)

Web Server Features:

- data display on smartphone tablet or PC
- billing function
- multitarriffs
- webserver multi-level
- possibility to setup all the world currencies

DEVICES FOR VISUALIZATION AND CONTROL



Smartphone



I-Pad or Tablet



Personal Computer



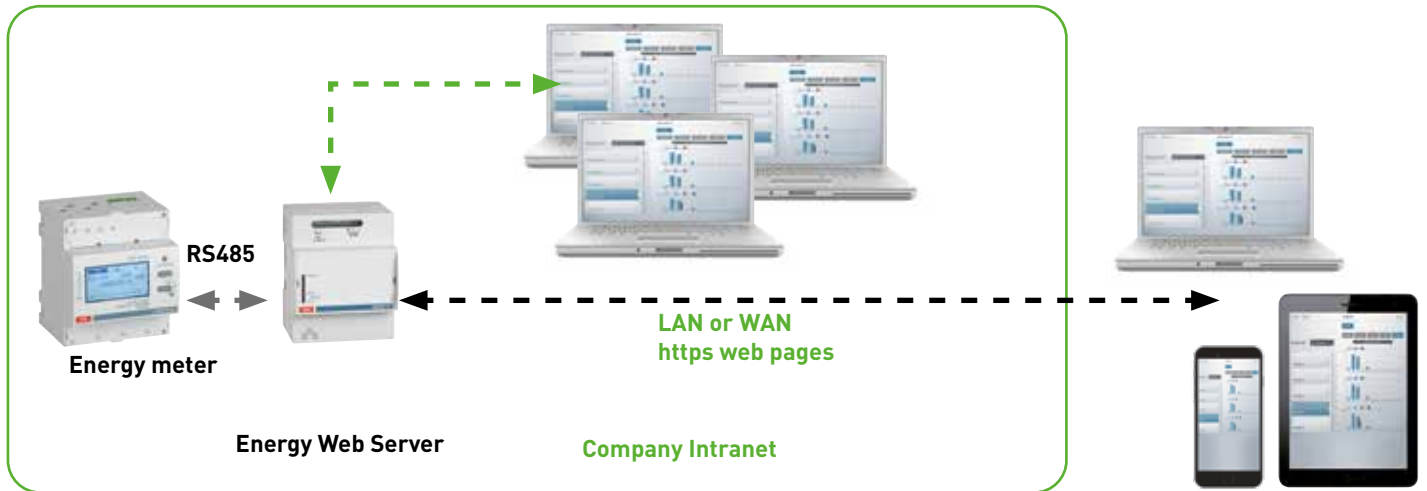
WEBSERVER

Application examples

ARCHITECTURE: EXAMPLE 1



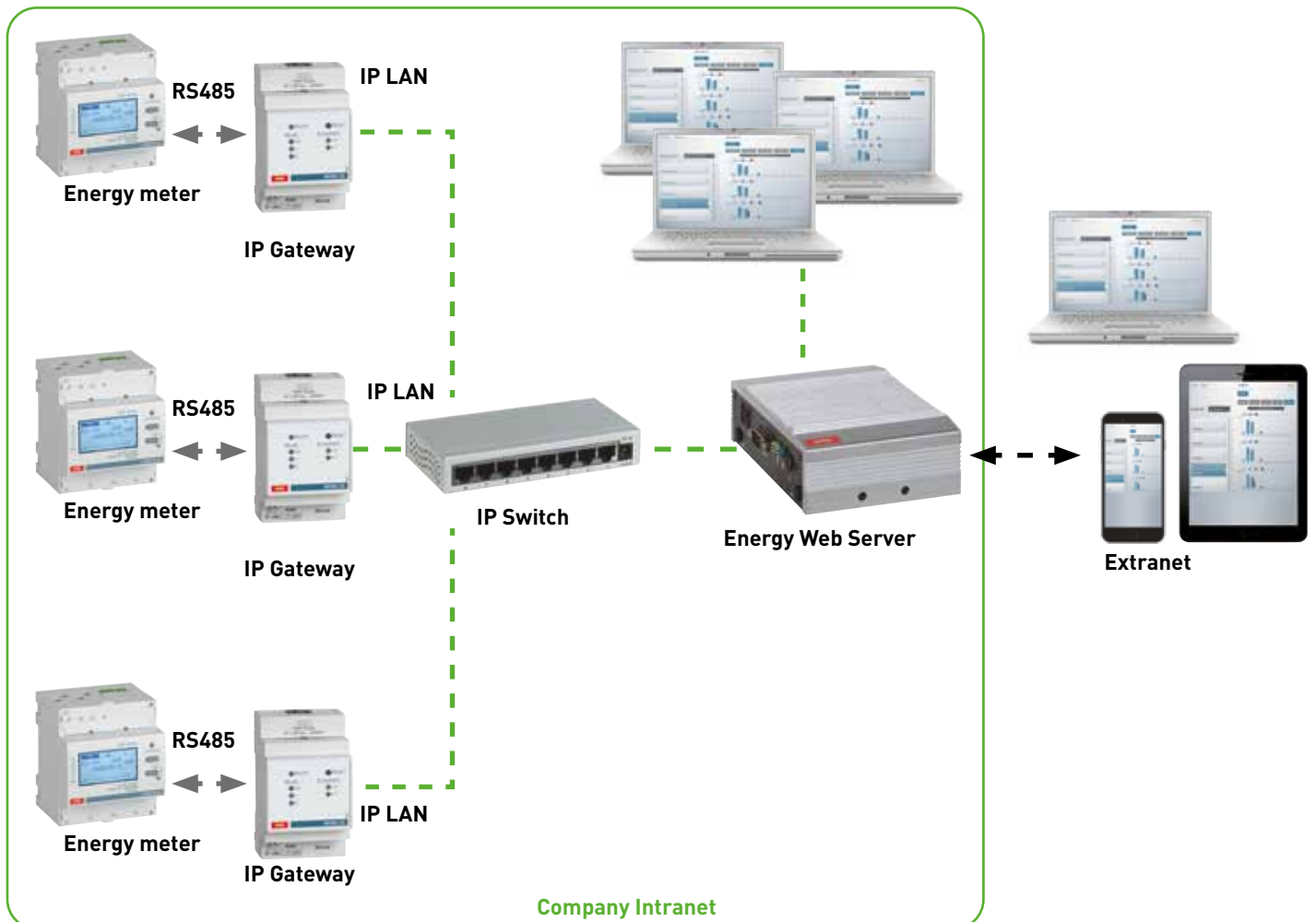
1 SITE WITH 1 PANEL AND THE NEED TO VIEW LOCALLY AND / OR REMOTELY



ARCHITECTURE: EXAMPLE 2

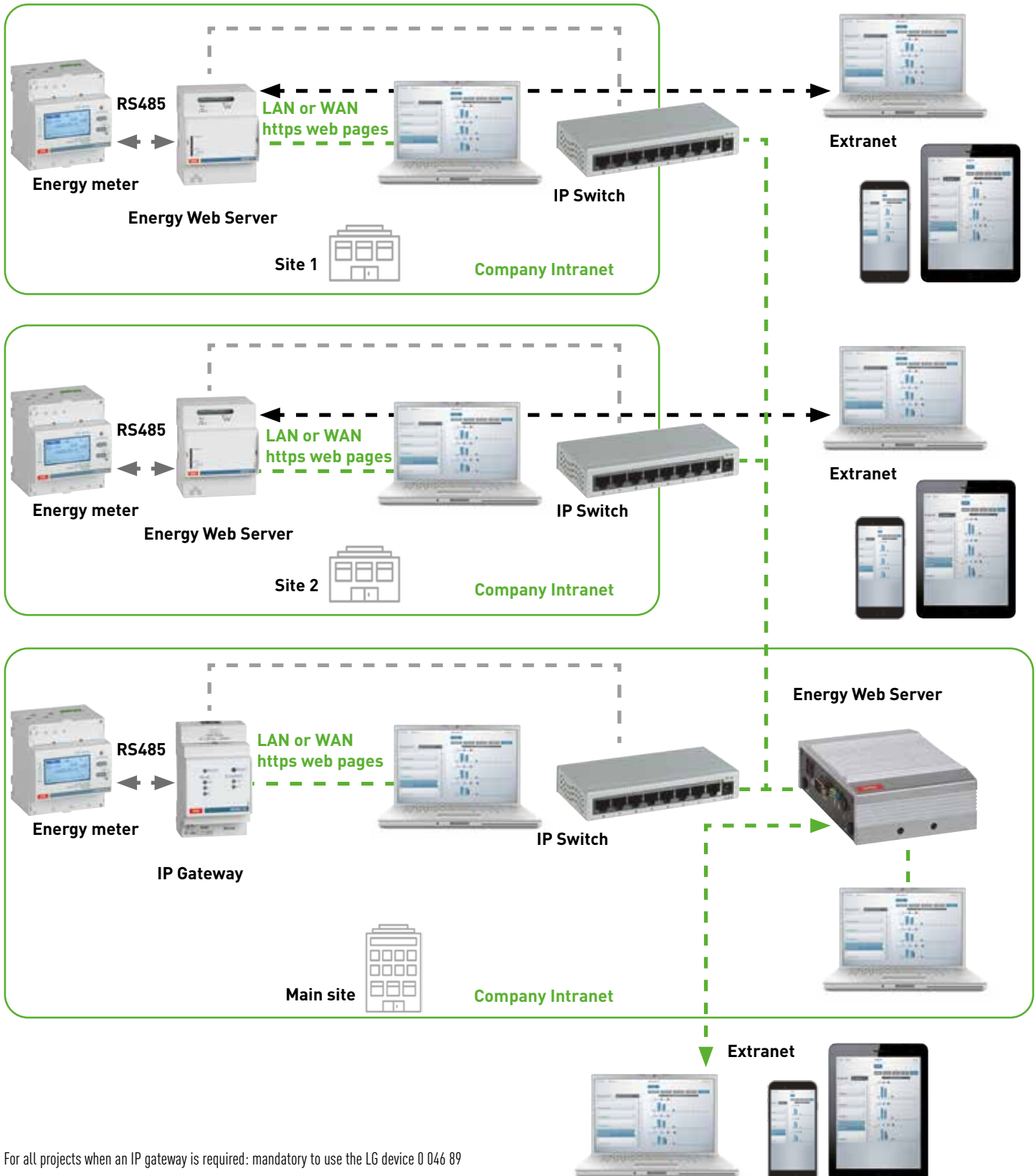


1 SITE WITH 2 PANELS AND THE NEED TO VIEW LOCALLY AND / OR REMOTELY



ARCHITECTURE: EXAMPLE 3

SEVERAL SITES



For all projects when an IP gateway is required: mandatory to use the LG device 0 046 89

Selection table

Model conto			CONTO D1 MID	CONTO D2 MID	CONTO D4-Pd MID	CONTO D6-Pd MID	CONTO D4-Pt MID	
Network			LV	LV	LV	LV	LV/MV	
Connection			Direct				CT	
INPUT	Connection	Single-phase L1+N	yes	yes	-	-	-	
		Three-phase 3L balanced load	-	-	yes	yes	yes	
		Three-phase 3L+N unbalanced load	-	-	yes	yes	yes	
	Rated value	Direct single phase voltage	230V	230V	-	-	-	
		VT single phase voltage	-	-	-	-	-	
		Direct three-phase voltage	-	-	400V	400-415V	400V	
		VT three-phase voltage	-	-	-	-	100V	
		Basic current (Ib)	5A	5A	5A	10A	5A	
		Max. current (Imax)	45A	63A	63A	125A	6A	
		Starting current	20mA	20mA	20mA	40mA	10mA	
		VT (kVT) ¹	-	-	-	-	1.00...300.00	
	Programmable Ratio	CT (kCT) ¹	-	-	-	-	1...9999	
		max. kVT x kCT	-	-	-	-	3.000.000	
DISPLAY	Active energy	Accuracy EN/IEC62053-21	-	-	-	-	-	
		Accuracy EN50470	cl.B	cl.B	cl.B	cl.B	cl.B	
		Total to terminals	yes MID	yes MID	yes MID	yes MID	yes MID	
		Total to primary side	-	-	-	-	yes	
		Partial resettable	-	yes	yes	yes	yes	
		Double tariff ⁴	-	yes	yes	yes	yes	
	Reactive energy	Accuracy EN/IEC62053-23	-	cl.2	cl.2	cl.2	cl.2	
		Total to terminals	yes	yes	yes	yes	yes	
		Total to primary side	-	-	-	-	yes	
		Partial resettable	-	yes	yes	yes	yes	
		Double tariff ⁴	-	yes	yes	yes	yes	
	Voltage	Phase	-	yes	yes	yes	yes	
		Chained	-	-	yes	yes	yes	
	Current	Phase	-	yes	yes	yes	yes	
		Neutral	-	-	-	-	-	
	Power factor		-	yes	yes	yes	yes	
	Power	Active	-	yes	yes	yes	yes	
		Reactive	-	yes	yes	yes	yes	
		Apparent	-	yes	yes	yes	yes	
		Phase Active, reactive and apparent	-	-	yes	yes	yes	
		Peak max. demand	-	yes	yes	yes	yes	
		Peak max. demand per tarif	-	yes	yes	yes	yes	
	Frequency		-	yes	yes	yes	yes	
	Run hour meter		-	yes	yes	yes	yes	
IN	Digital input		-	Double tariff/pulse	Double tariff/pulse	Double tariff	Double tariff/pulse	
	Pulse		yes	yes	yes	yes	yes	
	RS485 Modbus RTU		-	yes	yes	yes	yes	
	KNX		-	yes ²	yes ²	yes ²	yes ²	
	M-BUS		-	yes	yes	-	yes	
	Ethernet		-	yes ³	yes ³	yes ³	yes ³	
OUT	Auxiliary supply		-	-	-	-	-	
	Self-supplied		yes	yes	yes	yes	yes	
	DIN Dimensions		1 module	2 modules	4 modules	6 modules	4 modules	

1 kVT/ kCT transformations ratio to CT and VT defined as the mathematical ratio between the primary and secondary value.
Example: kVT of a transformer 1000/100V = 1000:100 = 10
kCT of a transformer 800/5A = 800:5 = 160

2 with external interface item IF1KNX

3 with external interface item F4E011 or SXIIP

Energy Meters

Selection table

									
	CONTO D1	CONTO D1	CONTO D2-b	CONTO D2	CONTO D4-Pd	CONTO D6-Pd	CONTO D4-Pt	CONTO D4-Sh	
	LV	LV	LV	LV	LV	LV	LV/MV	LV/MV	
	Direct							CT	CT
	yes	yes	yes	yes	-	-	yes	yes	
	-	-	-	-	yes	-	yes	yes	
	-	-	-	-	yes	yes	yes	yes	
	230V	230V	230-240V	230-240V	-	-	230V	230-240-254V	
	-	-	-	-	-	-	100V	-	
	-	-	-	-	400V	400V	400V	400-415-440V	
	-	-	-	-	-	-	100V	-	
	5A	5A	5A	5A	5A	10A	1-5A	1-5A	
	32A	45A	36A	63A	63A	125A	6A	6A	
	20mA	20mA	20mA	20mA	20mA	40mA	10mA	20mA	
	-	-	-	-	-	-	1.00...300.00	-	
	-	-	-	-	-	-	1...9999	1...1999	
	-	-	-	-	-	-	3.000.000	5.000.000 (1A) 1.000.000 (5A)	
	cl.1	cl.1	cl.1	cl.1	cl.1	cl.1	cl.1	cl.1	
	-	-	-	-	-	-	-	-	
	yes	yes	yes	yes	yes	-	yes	-	
	-	-	-	-	-	-	yes	yes	
	-	-	-	yes	yes	yes	yes	yes	
	-	-	-	yes	yes	yes	-	-	
	-	-	-	cl.2	cl.2	cl.2	cl.2	cl.2	
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	-	-	-	yes	yes	yes	yes	yes	
	-	-	-	yes	yes	yes	yes	-	
	-	-	-	yes	yes	yes	yes	yes	
	-	-							



Static Meter with MID certification
Direct connection for single-phase network up to 45A.
Pulse output for remote control of the consumptions

Functions

Total Active Energy

Item	Conto D1 MID	
CE1DMID12	Network 1Ph+N	Output Pulse

Technical features

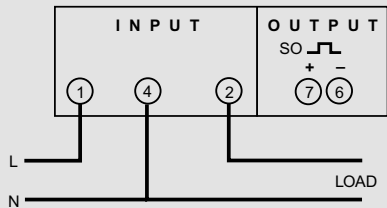
INPUT CURRENT	
Starting current (Ist)	0,02A
Min. current (Imin)	0,25A
Basic current (Ib)	5A
Max. current (Imax)	45A
Short-time overcurrent	30Imax/10ms
Power consumption	2W / 10VA
INPUT VOLTAGE	
Reference single-phase voltage	230V
Specified operating range	+ - 15%
NETWORK	
Reference frequency	50-60Hz
Frequency tolerance	49...51-59...61Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN50470	cl. B
DISPLAY	
Type	Backlit LCD
Digit height	6mm
Energy resolution	9999,99 kWh - 99999,9 kWh
MECHANICAL FEATURES	
Housing	1 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP51 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 7mm ² input - max 10mm ²
Flexible cable	output - max 4mm ² input - max 7mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-5...55°C
Limit range for storage and transport	-25...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤1W

*For switchboard thermal calculation

Output

ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	27Vdc/ac-27mA
Assignable energy	Active energy
Pulse weight	1 imp/Wh
Pulse duration	70ms

Wiring diagrams





Energy meter with direct connection for single-phase lines up to 63A with MID certification. The device measures and displays positive and negative active and reactive energies, among others, it is also equipped with a double tariff or pulse input. In the supervision systems, through the model with RS485 Modbus RTU communication port, it is possible to transmit and display all the electrical parameters in addition to the energy consumption.

Functions

Active positive and negative energy (MID)
 Active and reactive energy tariff 1 and tariff 2 (only for version with communication)
 Partial resettable active and reactive energy
 Current / Voltage / Frequency
 Power factor
 Active, reactive and apparent power
 Average active power and peak average power
 Average active maximum power
 Programmable hour meter (start counting from 0 ... 50% of the positive rated power)
 Digital input (Double tariff / pulses from external meters)

Item	Conto D2 MID		
	Network	Output	Input
CE2DF3DTMID	1Ph+N	RS485 Modbus RTU	Double tariff/pulse
CE2DF30PMID	1Ph+N	Pulse	Pulse
CE2DF3MTMID	1Ph+N	M-Bus	Double tariff/pulse

Technical features

INPUT CURRENT	
Starting current (Ist)	0,02A
Min. current (Imin)	0,25A
Basic current (Ib)	5A
Max. current (Imax)	63A
Short-time overcurrent	30Imax/10ms
Power consumption	1,5W / 4VA
INPUT VOLTAGE	
Reference single-phase voltage	230V
Specified operating range	±10%
NETWORK	
Reference frequency	50-60Hz
Frequency tolerance	49...51-59...61Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN50470	cl. B
Reactive energy kWh EN/IEC62053-21	cl. 2
DISPLAY	
Type	Backlit Graphic display LCD
Inch Display	1"
Energy resolution	9999999,99 KWh
MECHANICAL FEATURES	
Housing	2 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate >PC<
Classification V2 in accordance with standard UL94	
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm ² / input - max 16mm ²
Flexible cable	output - max 2,5mm ² / input - max 10mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤4W

*For switchboard thermal calculation

Output

ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	27Vdc/ac – 50mA
Assignable energy	active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms

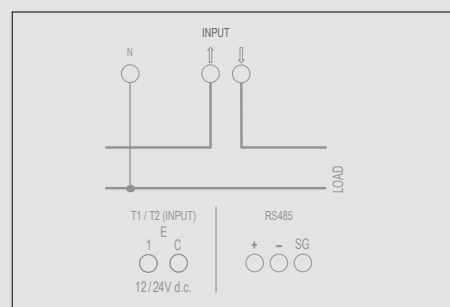
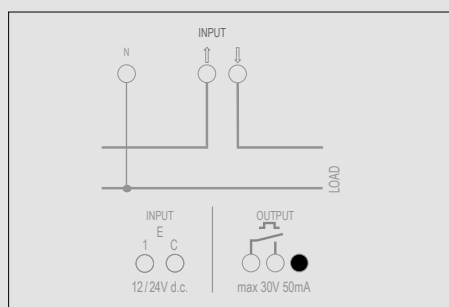
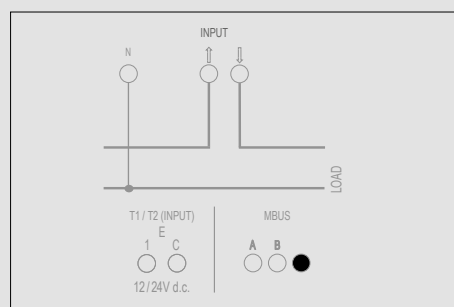
RS485 COMMUNICATION	
Protocol	Modbus RTU
Standard	RS485-3-wire
Impedance	120Ohm (setting by menu)
Baud rate	selectable 4800...38400 bit/s

M-BUS COMMUNICATION	
Protocol	M-BUS
Standard	EN13757
Baud rate	selectable 300;600;1200;2400;4800;9600

Input

Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams





Energy meter with direct connection for 3-phase or 4-wire line up to 63A with MID certification.

The device measures and displays positive and negative active and reactive energies, among others, and is equipped with a double tariff or pulse input. In the supervision systems, through the model with RS485, Modbus RTU communication port, it is possible to transmit and display all the electrical parameters in addition to the energy consumption.

Functions

Active positive and negative energy (MID)

Active and reactive energy tariff 1 and tariff 2 (only for version with communication)

Partial resettable active and reactive energy

Current / Voltage / Frequency

Power factor

Active and apparent phase power

Average active power and peak average power

Programmable hour meter (start counting from 0 ... 50% of the positive rated power)

Digital input (Double tariff / pulses from external meters)

Item	Conto D4 - Pd MID		
	Network	Output	Input
CE4DF3DTMID	3Ph / 3Ph + N	RS485 Modbus RTU	Double tariff/pulse
CE4DF30PMID	3Ph / 3Ph + N	Pulse	Pulse
CE4DF3MTMID	3Ph / 3Ph + N	M-bus	Double tariff/pulse

Technical features

INPUT CURRENT	
Starting current (Ist)	0.02A
Min. current	0.25A
Basic current (Ib)	10A
Max. current (Imax)	63A
Short-time overcurrent	20Imax/0.5s 30Imax/0.5s
Power consumption	2.2VA / 1.5W three-phase
INPUT VOLTAGE	
Reference 3 phase voltages	400V +/-10%
NETWORK	
Reference frequency	50Hz +/-1Hz / 60Hz +/-1Hz
Frequency tolerance	49..51Hz - 59...61Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN50470	cl. B
Reactive energy kvarh EN/IEC 62053-23	cl. 2
DISPLAY	
Type	Backlit Graphic display LCD
Inch Display	2"
Energy resolution	9999999,99 KWh
MECHANICAL FEATURES	
Housing	4 modules DIN 43880 (35mm)
Housing material	Polycarbonate >PC<
Resistance to glow wire	850°C
Classification V2 in accordance with standard UL94	
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm ² / input - max 16mm ²
Flexible cable	output - max 2,5mm ² / input - max 10mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤6W

*For switchboard thermal calculation

Output

ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	27Vdc/ac – 50mA
Assignable energy	Active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms

RS485 COMMUNICATION

Protocol	Modbus RTU
Standard	RS485-3-wire
Impedence	120 Ohm configurable via on-board menu
Baud rate	selectable 4800...38400 bit/s

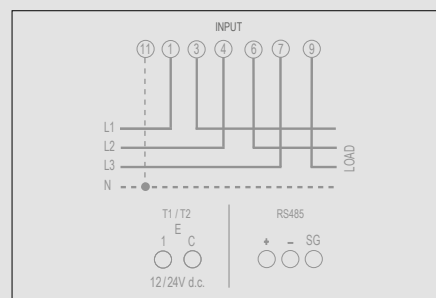
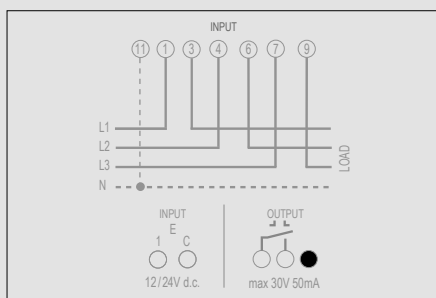
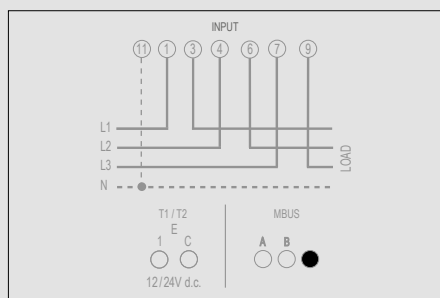
M-BUS COMMUNICATION

Protocol	M-BUS
Standard	EN13757
Baud rate	selectable 300;600;1200;2400;4800;9600

Input

Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams



Energy Meters



Static meter 125 A direct connection



Direct connection for three-phase network, 4-wires.
It makes available active or reactive energy counting of the pulse output to integration of consumption supervision systems.
For supervision systems, through the model with output RS485 communication Modbus RTU, you can transmitted on the network main electrical parameters in addition to the energy consumption.

Functions

Total active and reactive energy (positive)
Partial active and reactive energy (resettable)
Instantaneous current, voltage and frequency
Active and reactive power (three-phase and single phase)
Power Factor
Run hour meter (count start 0,4...50% rated power)

Item	Conto D6 Pd MID		
	Network	Output	Input
CE6DMID56	3Ph + N	Pulse + RS485 Modbus RTU/TCP	Double tariff
CE6DMID52	3Ph + N	Pulse	Double tariff

Technical features

TECHNICAL FEATURES

INPUT CURRENT

Starting current (Ist)	0,04A
Min. current (Imin)	0,5A
Basic current (Ib)	10A
Max. current (Imax)	125A
Short-time overcurrent	30Imax/10ms
Power consumption	1,5W for phase

INPUT VOLTAGE

Reference three-phase voltage	400V
Reference 3 phase voltages (with N)	230V +/-10%

NETWORK

Reference frequency	50Hz +/-1Hz / 60Hz +/-1Hz
Frequency tolerance	47...63Hz

AUXILIARY SUPPLY

Nominal voltage	Taken from measurement (self-supplied)
-----------------	---

ACCURACY

Active energy kWh EN50470	cl. B
Reactive energy kvarh EN/IEC 62053-23	cl. 2

DISPLAY

Type	Backlit LCD
Inch Display	2"
Energy resolution	total 999999999KWh tariff 999999,99KWh

MECHANICAL FEATURES

Housing	6 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm ² input - max 50mm ² (16 neutral)
Flexible cable	output - max 2,5mm ² input - max 35mm ² (16 neutral)

ENVIRONMENTAL CONDITIONS

Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤6W

*For switchboard thermal calculation

Output

ENERGY PULSES S0 EN/IEC 62053-31

Type	Optorelay with potential-free
Contact range	27Vdc/ac – 50mA
Assignable energy	Active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms

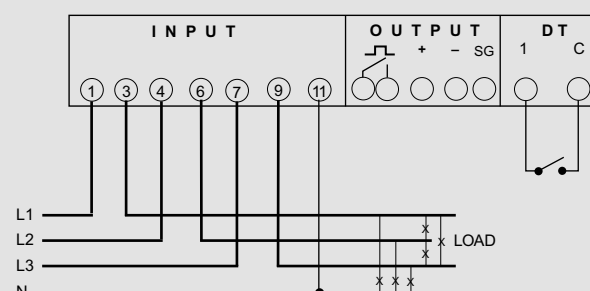
RS485 COMMUNICATION

Protocol	Modbus RTU/TCP
Standard	RS485-3-wire
Baud rate	selectable 4800...19200 bit/s

Input

Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams





Energy meter with indirect connection via CT for single-phase and three phase lines with 3 or 4 wires with MID certification. The device measures and displays positive and negative active and reactive energies, among others, and is equipped with a double tariff input. In the supervision systems, through the model with RS485 Modbus RTU communication port, it is possible to transmit and display all the electrical parameters in addition to the energy consumption.

Functions

Active positive and negative energy at the terminals (MID)

Active and reactive energy on the primary side (CT/VT)

Active and reactive energy tariff 1 and tariff 2

Partial resettable active and reactive energy

Current / Voltage / Frequency

Power factor

Active, reactive and apparent power

Average active power and peak average power

Programmable hour meter (start counting from 0 ... 50% of the positive rated power)

Digital input (Double tariff / pulses from external meters)

Item	Conto D4 - Pt MID		
	Network	Output	Input
CE4TBDT MID	3Ph / 3Ph + N	RS485 Modbus RTU	Double tariff
CE4TBMT MID	3Ph / 3Ph + N	M-bus	Double tariff

Technical features

INPUT CURRENT	
Starting current (Ist)	0,01A
Min. current (Imin)	0,05A
Basic current (Ib)	5A
Max. current (Imax)	6A
Short-time overcurrent	30Imax/10ms
Power consumption	0,3W / 0,2VA for phase
INPUT VOLTAGE	
Reference 3 phase voltages (with N)	230V +/-10%
Reference 3 phase voltages (without N)	400V +/-10%
NETWORK	
Reference frequency	50-60Hz
Frequency tolerance	49...51-59...61Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN50470	cl. B
Reactive energy kvarh EN/IEC 62053-23	cl. 2
DISPLAY	
Type	Backlit LCD
Digit height	6mm
Energy Sec Energy Pri:**	999999999 (resolution in function of CT/VT ratio) (see note 1)
MECHANICAL FEATURES	
Housing	4 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm ² / input - max 16mm ²
Flexible cable	output - max 2,5mm ² / input - max 10mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤4W

Output

RS485 COMMUNICATION	
Protocol	Modbus RTU
Standard	RS485-3-wire
Baud rate	selectable 4800...19200 bit/s
M-BUS COMMUNICATION	
Protocol	M-BUS
Standard	EN13757
Baud rate	selectable 300...9600 bit/s

Input

Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

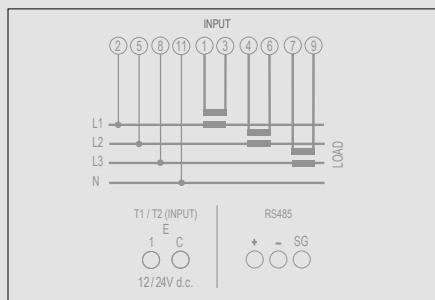
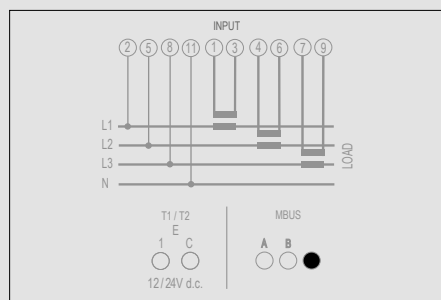
Note 1

*For switchboard thermal calculation

** kCT*kVT MAXIMUM DISPLAY
 1...9 9999999,99kWh/kvarh
 10...99 99999999,9kWh/kvarh
 100...999 999999999kWh/kvarh
 1000...9999 9999999,99MWh/Mvarh
 10000...99999 99999999,9MWh/Mvarh
 ≥100000 999999999MWh/Mvarh

kCT programmable 1...9999
 kVT programmable 1,00...300,00
 kCTxkVT max 3.000.000

Wiring diagrams



Energy Meters

Static meter 32/45 A direct connection



Direct connection for single-phase network.
It makes available active energy counting of the pulse output to integration of consumption supervision systems.

Functions

Active Energy

Item	Conto D1 (32A)	
	Network	Output
CE11165A0	1Ph+N	-
CE11165A2	1Ph+N	Pulse



Direct connection for single-phase network.
For supervision systems, through the model with output RS485 communication Modbus RTU, you can transmitted on the network main electrical parameters in addition to the energy consumption.

Functions

Active and Reactive energy
Current / Voltage
Power factor
Active, reactive and apparent power

Item	Conto D1 (45A)	
	Network	Output
CE11165A4	1Ph+N	RS485 Modbus RTU

Technical features

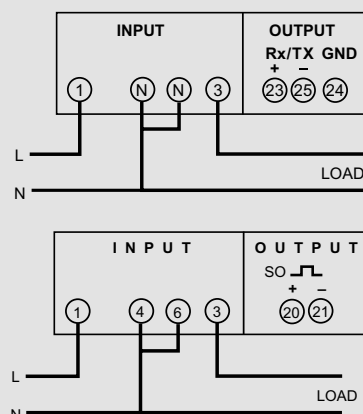
TIPO	CE11165A0 CE11165A2	CE11165A4
INPUT CURRENT		
Starting current (Ist)	0,02A	
Min. current (Imin)	0,5A	
Basic current (Ib)	5A	
Max. current (Imax)	32A	45A
Short-time overcurrent	30Imax/10ms	
Power consumption	9,7VA(0,5W) a 264V	7,5VA / 0,6W
INPUT VOLTAGE		
Reference single-phase voltage	230V	
Specified operating range	196...264V	
NETWORK		
Reference frequency	50-60Hz	
Frequency tolerance	47...63Hz	
AUXILIARY SUPPLY		
Nominal voltage	Taken from measurement (self-supplied)	
ACCURACY		
Active energy kWh EN/IEC 62053-21	cl. 1	
DISPLAY		
Type	LCD	Backlit LCD
Digit height	6mm	
Energy resolution	99999,99 kWh	999999 kWh/kvarh
MECHANICAL FEATURES		
Housing	1 module DIN 43880 (35mm)	
Housing material	self-extinguishing polycarbonate	
Protection degree	IP20 terminals	
Sealable terminals	Yes	
Connections type	screw terminals	
Cable with lag	output - max 6mm ² input - max 10mm ²	output - max 6mm ² input - max 25mm ²
Flexible cable	output - max 4mm ² input - max 6mm ²	output - max 4mm ² input - max 6mm ²
ENVIRONMENTAL CONDITIONS		
Nominal temperature range	-5...55°C	
Limit range for storage and transport	-25...70°C	
Suitable for tropical climates	yes	
Max.power dissipation*	≤1W	

*For switchboard thermal calculation

Output

RS485 COMMUNICATION	
Protocol	Modbus RTU
Standard	RS485-3-wire
Baud rate	selectable 1200...9600 bit/s
ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	12...27Vdc-10...27mA
Assignable energy	Active energy
Pulse weight	1 imp/Wh
Pulse duration	700ms

Wiring diagrams



Energy Meters

Static meter 36 A direct connection



Direct connection for single-phase network.

Functions
Active energy

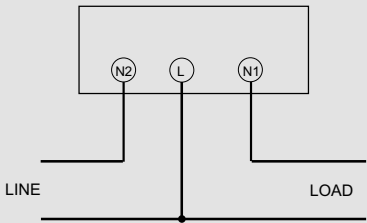
Item	Conto D2-b	
CE21175A0	Network 1Ph+N	Output -

Technical features

INPUT CURRENT	
Starting current (Ist)	0,02A
Min. current (Imin)	0,25A
Basic current (Ib)	5A
Max. current (Imax)	36A
Short-time overcurrent	30Imax/10ms
Power consumption	9,7VA (1,3W) @ 264V
INPUT VOLTAGE	
Reference single-phase voltage	230V
Specified operating range	207...264V
NETWORK	
Reference frequency	50-60Hz
Frequency tolerance	47...63Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN/IEC 62053-21	cl. 1
DISPLAY	
Type	LCD
Digit height	6mm
Energy resolution	99999,9 kWh
MECHANICAL FEATURES	
Housing	2 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP51 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	input - max 16mm ²
Flexible cable	input - max 10mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-10...45°C
Limit range for storage and transport	-25...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤2,3W

*For switchboard thermal calculation

Wiring diagrams



Energy Meters

Static meter 63 A direct connection



Energy meter with direct connection for single-phase lines up to 63A. The device measures and displays positive and negative active and reactive energies, among others, it is also equipped with a double tariff or pulse input. In the supervision systems, through the model with RS485 Modbus RTU communication port, it is possible to transmit and display all the electrical parameters in addition to the energy consumption.

Functions

Active positive and negative energy
Active and reactive energy tariff 1 and tariff 2 (only for version with communication)
Partial resettable active and reactive energy
Current / Voltage / Frequency
Power factor
Active, reactive and apparent power
Average active power and peak average power
Programmable hour meter (start counting from 0 ... 50% of the positive rated power)
Digital input (Double tariff / pulses from external meters)

Item	Conto D2		
	Network	Output	Input
CE2DF3DTCL1	1Ph+N	RS485 Modbus RTU	Double tariff or pulse (in alternative)
CE2DF30PCL1	1Ph+N	Pulse	Pulse

Technical features

INPUT CURRENT	
Starting current (Ist)	0,02A
Min. current (Imin)	0,25A
Basic current (Ib)	5A
Max. current (Imax)	63A
Short-time overcurrent	30Imax/10ms
Power consumption	1,5W / 4VA
INPUT VOLTAGE	
Reference single-phase voltage	230V
Specified operating range	±10%
NETWORK	
Reference frequency	50-60Hz
Frequency tolerance	49...51-59...61Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN50470	cl. B
Reactive energy kWh EN/IEC62053-21	cl. 2
DISPLAY	
Type	Backlit Graphic display LCD
Inch Display	1"
Energy resolution	9999999,99 kWh
MECHANICAL FEATURES	
Housing	2 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate >PC<
Classification V2 in accordance with standard UL94	
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm² / input - max 16mm²
Flexible cable	output - max 2,5mm² / input - max 10mm²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤4W

*For switchboard thermal calculation

Output

ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	27Vdc/ac – 50mA
Assignable energy	active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms

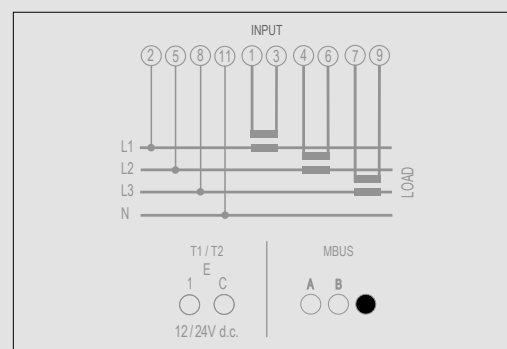
RS485 COMMUNICATION

Protocol	Modbus RTU
Standard	RS485-3-wire
Impedance	120Ohm (setting by menu)
Baud rate	selectable 4800...38400 bit/s

Input

Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams



Energy Meters

Static meter 63 A direct connection



Direct connection for three-phase network, 3 or 4-wires and for single-phase 3 inputs.

It makes available active or reactive energy counting of the pulse output to integration of consumption supervision systems.

For supervision systems, through the model with output RS485 communication Modbus RTU or M-Bus, you can transmitted on the network main electrical parameters in addition to the energy consumption.

Functions

Active positive and negative energy at the terminals

Active and reactive energy tariff 1 and tariff 2 (only for version with communication)

Partial resettable active and reactive energy

Current / Voltage / Frequency

Power factor

Average active power and peak average power

Programmable hour meter (start counting from 0 ... 50% of the positive rated power)

Display on 9 digits and 4 quadrants

Digital input (Double tariff / pulses from external meters)

Pulse output

Item	Conto D4-Pd		
	Network	Output	Input
CE4DF3DTCL1	3Ph /3Ph + N	RS485 Modbus RTU/TCP	Double tariff or pulse (in alternative)
CE4DF30PCL1	3Ph /3Ph + N	Pulse	Pulse
CE4DF3MTCL1	3Ph /3Ph + N	M-Bus	Double tariff or pulse (in alternative)

Technical features

INPUT CURRENT	
Starting current (Ist)	0,02A
Min. current (Imin)	0,25A
Basic current (Ib)	5A
Max. current (Imax)	63A
Short-time overcurrent	30Imax/10ms
Power consumption	<2VA 3-phase
INPUT VOLTAGE	
Reference three-phase voltage	400V
Specified operating range	196V Phase phase 480V Phase neutral
NETWORK	
Reference frequency	50-60Hz
Frequency tolerance	47...63Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN/IEC 62053-21	cl. 1
Reactive energy kvarh EN/IEC 62053-23	cl. 1
DISPLAY	
Type	Backlit Graphic display LCD
Inch Display	2"
Energy resolution	9999999,99 KWh
MECHANICAL FEATURES	
Housing	4 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm ² / input - max 16mm ²
Flexible cable	output - max 2,5mm ² / input - max 10mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤6W

*For switchboard thermal calculation.

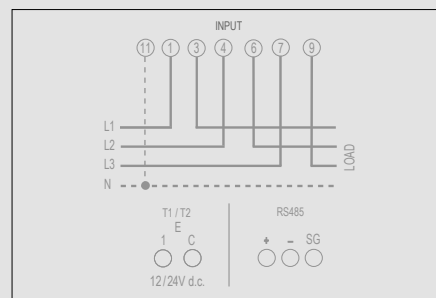
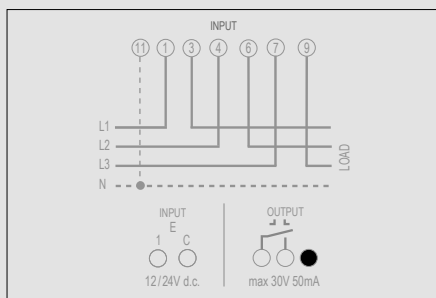
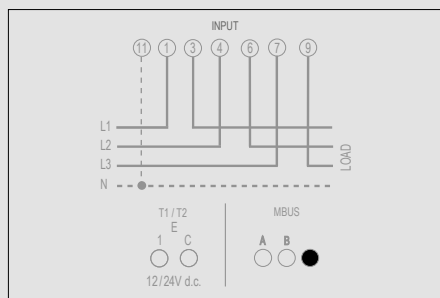
Output

ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	27Vdc – 50mA
Assignable energy	Active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms
RS485 COMMUNICATION	
Protocol	Modbus RTU/TCP
Standard	RS485-3-wire
Baud rate	selectable 4800...38400 bit/s
M-BUS COMMUNICATION	
Protocol	M-BUS
Standard	EN13757
Baud rate	selectable 300...9600 bit/s

Input

Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams



Energy Meters

Static meter 125 A direct connection



Direct connection for three-phase network, 4-wires.
It makes available active or reactive energy counting of the pulse output to integration of consumption supervision systems.
For supervision systems, through the model with output RS485 communication Modbus RTU, you can transmitted on the network main electrical parameters in addition to the energy consumption.

Functions

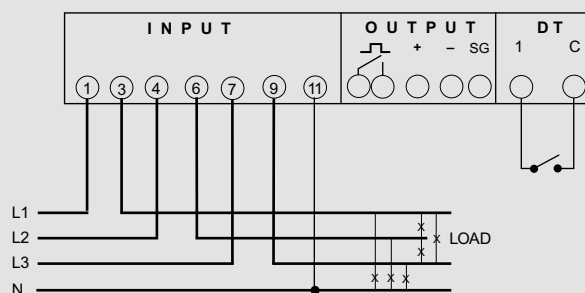
Total active and reactive energy (positive)
Partial active and reactive energy (resettable)
Instantaneous current, voltage and frequency
Active and reactive power (three-phase and single phase)
Run hour meter (count start 0,4...50% rated power)

Item	Conto D6 Pd		
	Network	Output	Input
CE6DT1256	3Ph + N	Pulse + RS485 Modbus RTU	Double tariff
CE6DT1252	3Ph + N	Pulse	Double tariff

Technical features

INPUT CURRENT	
Starting current (Ist)	0,04A
Min. current (Imin)	0,5A
Basic current (Ib)	10A
Max. current (Imax)	125A
Short-time overcurrent	30Imax/10ms
Power consumption	1,5W for phase
INPUT VOLTAGE	
Reference three-phase voltage	400V
Specified operating range	+/-15%
NETWORK	
Reference frequency	50-60Hz
Frequency tolerance	47...63Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN/IEC 62053-21	cl. 1
Reactive energy kvarh EN/IEC 62053-23	cl. 2
DISPLAY	
Type	Backlit LCD
Digit height	6mm
Energy resolution	999999,99 kWh/kvarh
MECHANICAL FEATURES	
Housing	6 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm ² input - max 50mm ² (16 neutral)
Flexible cable	output - max 2,5mm ² input - max 35mm ² (16 neutral)
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤6W
*For switchboard thermal calculation	
Output	
ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	27Vdc/ac – 50mA
Assignable energy	Active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms
RS485 COMMUNICATION	
Protocol	Modbus RTU/TCP
Standard	RS485-3-wire
Baud rate	selectable 4800...19200 bit/s
Input	
Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams



Energy Meters

Static meter by CT



Static meter by CT for single and three-phase network, 3 or 4-wires. It makes available active or reactive energy counting of the pulse output to integration of consumption supervision systems. For supervision systems, through the model with output RS485 communication Modbus RTU or M-Bus, you can transmitted on the network main electrical parameters in addition to the energy consumption.

Functions

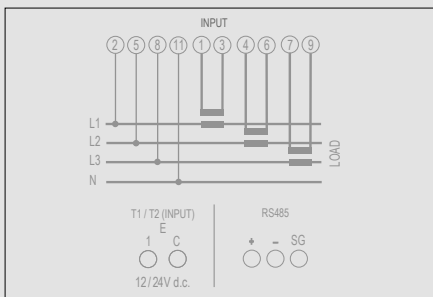
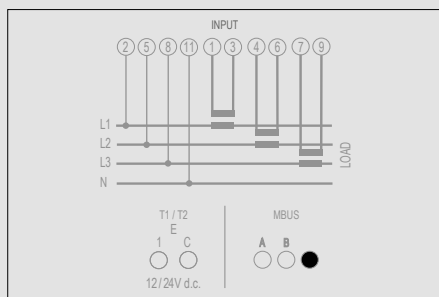
Active and reactive energy on the primary side (CT/VT)
 Active and reactive energy tariff 1 and tariff 2
 Partial resettable active and reactive energy
 Current / Voltage / Frequency
 Power factor
 Active, reactive and apparent power
 Average active power and peak average power
 Programmable hour meter (start counting from 0 ... 50% of the positive rated power)
 Digital input (Double tariff / pulses from external meters)

Item	Conto D4 Pt		
	Input (V)	Output	Input
CE4TBDTCL1	100 -110	RS485 Modbus RTU	Double tariff or pulse (in alternative)
CE4TB0PCL1	100 -110	Pulse	Pulse
CE4TBMTCL1	100 -110	M-Bus	Double tariff or pulse (in alternative)

Technical features

INPUT CURRENT	
Starting current (Ist)	0,02A
Min. current (Imin)	0,5A
Basic current (Ib)	1A + 5A
Max. current (Imax)	6A
Short-time overcurrent	20Imax/0,5s
Power consumption	4,5VA (1,85W) @ 440V 3-phase
INPUT VOLTAGE	
Reference three-phase voltage	100-400V
Specified operating range	210...264V and 90...140V
NETWORK	
Reference frequency	50Hz
Frequency tolerance	47...63Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN/IEC 62053-21	cl. 1
Reactive energy kvarh EN/IEC 62053-23	cl. 2
DISPLAY	
Type	LCD
Digit height	6mm
Energy resolution	depending on the CT ratio**
MECHANICAL FEATURES	
Housing	4 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP51 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 4mm ² input - max 4mm ²
Flexible cable	output - max 2,5mm ² input - max 2,5mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤2,8W
Output	
ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	27Vdc – 50mA
Assignable energy	Active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms
RS485 COMMUNICATION	
Protocol	Modbus RTU
Standard	RS485-3-wire
Baud rate	selectable 4800...38400 bit/s
M-BUS COMMUNICATION	
Protocol	M-BUS
Standard	EN13757
Baud rate	selectable 300...9600 bit/s
Input	
Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams



Note 1

*For switchboard thermal calculation

** kCT*kVT	MAXIMUM DISPLAY
1...9	9999999,99kWh/kvarh
10...99	99999999,9kWh/kvarh
100...999	999999999kWh/kvarh
1000...9999	999999999MWh/Mvarh
10000...99999	999999999MWh/Mvarh
≥100000	999999999MWh/Mvarh

kCT programmable 1...9999

kVT programmable 1,00...300,00

kCTxkVT max 3.000.000

Energy Meters

Static meter by CT



Static meter by CT for single and three-phase network, 3 or 4-wires. It makes available active or reactive energy counting of the pulse output to integration of consumption supervision systems. For supervision systems, through the model with output RS485 communication Modbus RTU, you can transmit on the network main electrical parameters in addition to the energy consumption.

Functions

Total active and reactive energy
Partial active and reactive energy
Current / Voltage
Frequency
Power factor
Active, reactive and apparent power, active power demand and active power max. demand

Item	Conto D4 Sh	
	Input (V)	Output
CE4ST14A4	400 -415	RS485 Modbus RTU
CE4ST14A2	400 -415	Pulse

Item	Accessories
	Description
AVKIT4	Wall mounting adapter (103x72mm)
AVKIT4Q	Wall mounting adapter (96x96mm)

Technical features

INPUT CURRENT	
Starting current (Ist)	0,01A
Min. current	0,5A
Basic current (Ib)	1A + 5A
Max. current (Imax)	6A
Short-time overcurrent	30Imax/0,5s
Power consumption	4,5VA (1,85W) @ 440V 3-phase
INPUT VOLTAGE	
Reference single-phase voltage	230-240V and 254V
Specified operating range	110...244V and 220...275V
Reference three-phase voltage	400-415V and 440V
Specified operating range	196...440V and 380...440V
NETWORK	
Reference frequency	50Hz
Frequency tolerance	47...63Hz
AUXILIARY SUPPLY	
Nominal voltage	Taken from measurement (self-supplied)
ACCURACY	
Active energy kWh EN/IEC 62053-21	cl. 1
Reactive energy kvarh EN/IEC 62053-23	cl. 2
DISPLAY	
Type	LCD
Digit height	6mm
Energy resolution	depending on the CT ratio**
MECHANICAL FEATURES	
Housing	4 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 4mm ² input - max 4mm ²
Flexible cable	output - max 2,5mm ² input - max 2,5mm ²
ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤4W

*For switchboard thermal calculation

** kCT*kVT	MAXIMUM DISPLAY
1...9	999999,99kWh/kvarh
10...99	9999999,9kWh/kvarh
100...999	99999999kWh/kvarh
1000...9999	999999,99MWh/Mvarh

Output

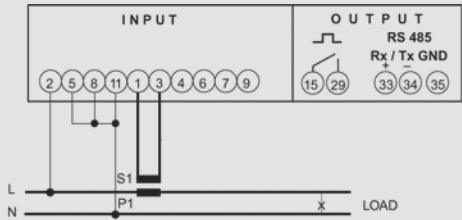
ENERGY PULSES S0 EN/IEC 62053-31	
Type	Optorelay with potential-free
Contact range	110 Vcc/ca-50mA
Assignable energy	Active or reactive energy
Pulse weight	selectable 1Wh/varh...1MWh/Mvarh
Pulse duration	selectable 50...500ms
RS485 COMMUNICATION	
Protocol	Modbus RTU
Standard	RS485-3-wire
Baud rate	selectable 4800...19200 bit/s

Input

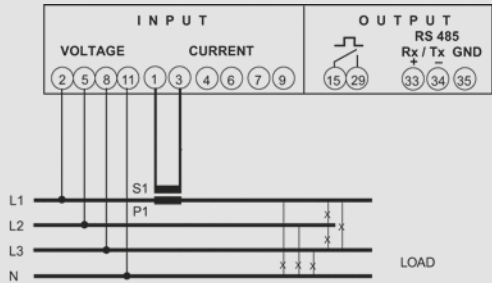
Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

Wiring diagrams

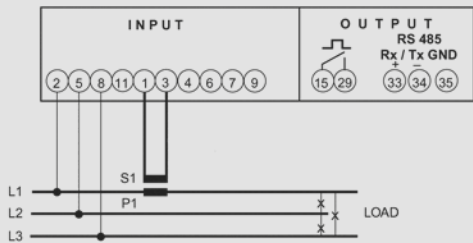
Single-phase network,



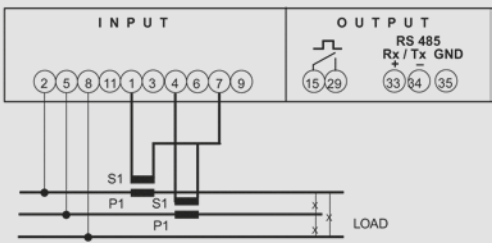
Three-phase 3Ph +N network, balanced load



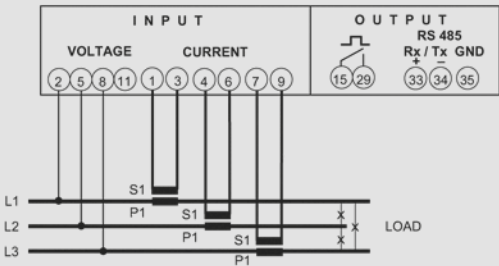
Three-phase 3Ph network, balanced load



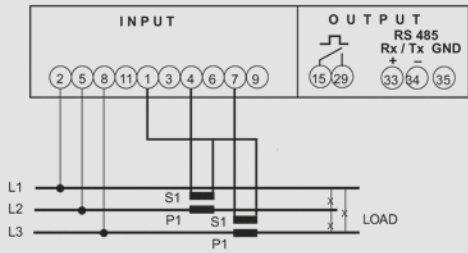
Three-phase 3Ph network, unbalanced load (aron L1-L2)



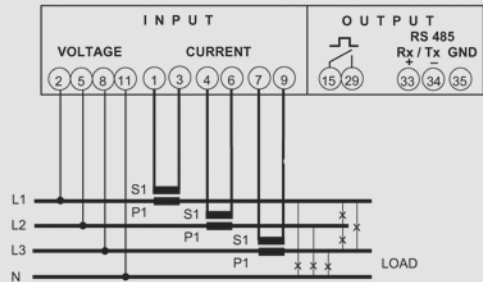
Three-phase 3Ph network, unbalanced load



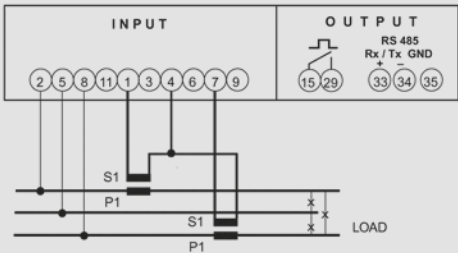
Three-phase 3Ph network, unbalanced load (aron L2-L3)



Three-phase 3Ph +N network, unbalanced load



Three-phase 3Ph network, unbalanced load (aron L1-L3)



Monitoring systems

Communication interfaces



SXIIIP



SXWS32



SXWS225



IF1KNX



IF4E011



IF4C001

Item	Repeater interface RS232-RS485 It allows to amplify the signal to 31 other devices over a distance of 1200m included in the same RS485 line Aux IF2E003 80...270Vac+100...300Vdc IF2E103 20...60Vdc+24Vac
	Interface RS485-KNX KNX/Modbus RS485 converter interface, for Conto energy meters and Nemo multifunctions, up to 31 struments Aux IF1KNX 95...250Vac
	Ethernet-RS485 Bridge or Datalogger function Multisession conversion interface (up to 4) Ethernet-RS485/ Datalogger, it allows to interface Conto energy meters and Nemo multifunctions to an Ethernet 10/100MB network. Direct connection on RS485 line up to 31 devices or through repeaters up to 255. Two Bridge operating modes (Modbus RTU or Over TCP) or Datalogger to store the energy data for each connected device and on demand to generate consumption reports for a selected period with the possibility to deliver by email to the system administrator. In this configuration, you can manage up to 64 different energy meters / multifunctions and users with individual access and a system administrator. Direct access by IP interface. Aux IF4E011 80...270Vac+100...300Vdc
	Pulse concentrator 12 inputs It allows to interface the Conto energy meters and all devices with pulse outputs (ex. water and gas meters) to data acquisition systems through RS485 Modbus-RTU output. Three possible configurations: 12 inputs from contact SPST-NO or 6 inputs from contact SPST-NO + 6 voltage contacts 27V max or 6 inputs from contact SPST-NO + inputs S0 (Wh+/Wh-/varh+/varh-/tariff change) for connection to ES card for GME (Enel measuring group) Aux IF4C001 230Vac

Item	Mini Web server DIN version Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers, of data collected from: protection devices, meters and multi-function measuring units. Description SXWS10 For 10 Modbus addresses or 10 pulse modules SXWS32 For 32 Modbus addresses or 32 pulse modules
	Web server Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers, of data collected from: protection devices, meters and multi-function measuring units. Description SXWS225 It manages up to 255 Modbus addresses
	Communication interfaces RS485 / Modbus TCP-IP module Modbus RS485 - Modbus TCP / IP conversion, allowing the devices in the electrical panel to be connected to an Ethernet network. Description SXIIIP RS485 / Ethernet conversion (for connection to an IP network)

CT for Static Energy Meters

Low voltage transformers

Cable/
passing bar

		TAIBB (NT516)				TA221 (NT811)				TA327 (NT812)				TA432 (NT814)				TA540 (NT815)			
Dimensions (mm)		44x65				49.5x80				56x80				70x95				70x95			
Cable (mm)		Ø21				Ø21				Ø27				Ø32				Ø40			
Window (mm)		16x12.5				20.5x10.5				25.5x15.5 32.5x10.5				25.5x25.5 32.5x20.5				40.5x20.5 50.5x12.5			
Ratio	Item	VA			Item	VA			Item	VA			Item	VA		Item	VA				
		cl.0.5	cl.1	cl.3		cl.0.5	cl.1	cl.3		cl.0.5	cl.1	cl.3		cl.0.5	cl.1		cl.0.5	cl.1			
40/5A	TABB50B400	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
50/5A	TABB50B500	-	-	1.5	TA22150B500	-	-	2.5	TA32750B500	-	-	1.5	-	-	-	-	-	-			
60/5A	TABB50B600	-	-	2	TA22150B600	-	1.5	3	TA32750B600	-	-	2.5	-	-	-	-	-	-			
75/5A	TABB50B750	-	1.5	2.5	TA22150B750	-	2	4	TA32750B750	-	1.5	3	-	-	-	-	-	-			
80/5A	TABB50B800	-	1.5	2.5	TA22150B800	-	3	4	TA32750B800	-	2.5	3.5	-	-	-	-	-	-			
100/5A	TABB50C100	1.5	2.5	-	TA22150C100	1.5	3	-	TA32750C100	1.5	3	-	TA43250C100	-	2	-	-	-			
120/5A	TABB50C120	2	3.5	-	TA22150C120	2.5	4	-	TA32750C120	2	3.5	-	TA43250C120	-	2	-	-	-			
125/5A	TABB50C125	2	3.5	-	TA22150C125	2.5	4	-	TA32750C125	2	3.5	-	TA43250C125	-	2	-	-	-			
150/5A	TABB50C150	3	4	-	TA22150C150	4	6	-	TA32750C150	3	4	-	TA43250C150	1	3	-	-	-			
160/5A	TABB50C160	3	4	-	TA22150C160	4	6	-	TA32750C160	3	5	-	TA43250C160	1.5	3	-	-	-			
200/5A	TABB50C200	4	5.5	-	TA22150C200	6	8	-	TA32750C200	4	7	-	TA43250C200	3	5	-	-	-			
250/5A	TABB50C250	5	6	-	TA22150C250	8	10	-	TA32750C250	6	8	-	TA43250C250	3	5	-	-	-			
300/5A	TABB50C300	6	7.5	-	TA22150C300	8	10	-	TA32750C300	8	10	-	TA43250C300	5	8	TA54050C300	2	4			
400/5A	-	-	-	-	-	-	-	-	TA32750C400	10	12	-	TA43250C400	8	10	TA54050C400	4	6			
500/5A	-	-	-	-	-	-	-	-	TA32750C500	12	15	-	TA43250C500	10	12	TA54050C500	4	6			
600/5A	-	-	-	-	-	-	-	-	TA32750C600	15	20	-	TA43250C600	12	15	TA54050C600	6	8			
800/5A	-	-	-	-	-	-	-	-	-	-	-	-	TA43250C800	10	12	TA54050C800	8	12			
1000/5A	-	-	-	-	-	-	-	-	-	-	-	-	TA43250D100	12	15	TA54050D100	10	12			
1200/5A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	TA54050D120	12	15			
Sealable terminal cover	ATACOP12					ATACOP13				ATACOP13				ATACOP13			ATACOP13				

Cable/
passing bar

	TAS64 (NT569)			TAS65 (NT518)			TAS84 (NT574)			TAS102 (NT766)			TAS127B (NT523)			
Dimensions (mm)	90x130			90x94			96x116			98x129			125x160			
Window (mm)	51x31 64x11			32x65			34x84			38x102			54x127			
Ratio	Item	VA		Item	VA		Item	VA		Item	VA		Item	VA		
		cl.0.5	cl.1		cl.0.5	cl.1		cl.0.5	cl.1		cl.0.5	cl.1		cl.0.5	cl.1	
600/5A	TASI50C600	4	6	TASL50C600	8	12	TASO50C600	6	10	-	-	-	-	-	-	
800/5A	TASI50C800	6	8	TASL50C800	12	15	TASO50C800	8	12	-	-	-	-	-	-	
1000/5A	TASI50D100	8	10	TASL50D100	15	20	TASO50D100	10	15	TAMP50D100	10	12	-	-	-	
1200/5A	TASI50D120	10	12	TASL50D120	15	20	TASO50D120	12	15	TAMP50D120	12	15	-	-	-	
1250/5A	TASI50D125	10	12	TASL50D125	15	20	TASO50D125	12	15	TAMP50D125	12	15	-	-	-	
1500/5A	TASI50D150	10	12	TASL50D150	20	25	TASO50D150	15	20	TAMP50D150	12	15	TASS50D150	20	30	
1600/5A	TASI50D160	10	12	TASL50D160	20	25	TASO50D160	15	20	TAMP50D160	12	15	TASS50D160	20	30	
2000/5A	-	-	-	TASL50D200	20	25	TASO50D200	20	25	TAMP50D200	20	25	TASS50D200	25	30	
2500/5A	-	-	-	-	-	-	TASO50D250	25	30	TAMP50D250	20	25	TASS50D250	30	50	
3000/5A	-	-	-	-	-	-	-	-	-	TAMP50D300	20	25	TASS50D300	30	50	
4000/5A	-	-	-	-	-	-	-	-	-	-	-	-	TASS50D400	30	50	
Sealable terminal cover	ATACOP03	ATACOP04			ATACOP04			ATACOP04			ATACOP04			ATACOP04		

RED ITEMS: In stock also in the version with terminals on the long side. Ordering code: add "3" at the end of the standard code

CT for Static Energy Meters

Low voltage transformers

Open core CT



Dimensions (mm) Window (mm)	TRA230 (NT869)				TRA580 (NT841)				TRA812 (NT842)				TRA816 (NT863)			
	92x110 20.5x30.5				120x150 50.5x80.5				150x190 80.5x120.5				185x230 80.5x160.5			
Ratio	Item	VA			Item	VA		Item	VA			Item	VA		Item	VA
		cl.0.5	cl.1	cl.3		cl.0.5	cl.1		cl.0.5	cl.1	cl.3		cl.0.5	cl.1		
60/5A	TA23050B600	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100/5A	TA23050C100	-	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-
150/5A	TA23050C150	-	1.5	2.5	-	-	-	-	-	-	-	-	-	-	-	-
200/5A	TA23050C200	1	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-
250/5A	TA23050C250	1.5	3	-	TA58050C250	1	2	-	-	-	-	-	-	-	-	-
300/5A	TA23050C300	1.5	4	-	TA58050C300	1.5	3	-	-	-	-	-	-	-	-	-
400/5A	TA23050C400	2.5	6	-	TA58050C400	1.5	3	-	-	-	-	-	-	-	-	-
500/5A	-	-	-	-	TA58050C500	2.5	5	TA81250C500	-	4	12	-	-	-	-	-
600/5A	-	-	-	-	TA58050C600	2.5	5	TA81250C600	-	5	14	-	-	-	-	-
800/5A	-	-	-	-	TA58050C800	3	7	TA81250C800	3	7	-	-	-	-	-	-
1000/5A	-	-	-	-	TA58050D100	5	10	TA81250D100	5	10	-	-	-	-	-	-
1200/5A	-	-	-	-	-	-	-	TA81250D120	6	11	-	-	-	-	-	-
1500/5A	-	-	-	-	-	-	-	TA81250D150	8	15	-	-	-	-	-	-
2000/5A	-	-	-	-	-	-	-	-	-	-	-	TA81650D200	15	20	-	-
2500/5A	-	-	-	-	-	-	-	-	-	-	-	TA81650D250	15	20	-	-
3000/5A	-	-	-	-	-	-	-	-	-	-	-	TA81650D300	20	25	-	-
4000/5A	-	-	-	-	-	-	-	-	-	-	-	TA81650D400	20	25	-	-
5000/5A	-	-	-	-	-	-	-	-	-	-	-	TA81650D500	20	25	-	-
Sealable terminal cover	ATACOP13				ATACOP13			ATACOP13				ATACOP13				

Primary winding



Dimensions (mm) Primary terminals	TAQ2M (NT881)				TAQ6M (NT883)				TAQ2L (NT882)				TAQ6L (NT884)			
	56x80 screw type, max. cross section 6mm ² /10mm ² with wire terminals				56x80 M6 with nut tightening				56x80 M6 with nut tightening				56x80 M6 with nut tightening			
Rapporto	Item	VA		Item	VA		Item	VA		Item	VA		Item	VA		Item
		cl.0.5	cl.1		cl.0.5	cl.1		cl.0.5	cl.1		cl.0.5	cl.1		cl.0.5	cl.1	
5/5A	TAQ2M50A500	2	4	TAQ6M50A500	6	7.5	-	-	-	-	-	-	-	-	-	-
10/5A	TAQ2M50B100	2	4	TAQ6M50B100	6	7.5	-	-	-	-	-	-	-	-	-	-
15/5A	TAQ2M50B150	2	4	TAQ6M50B150	6	7.5	-	-	-	-	-	-	-	-	-	-
20/5A	TAQ2M50B200	2	4	TAQ6M50B200	6	7.5	-	-	-	-	-	-	-	-	-	-
25/5A	TAQ2M50B250	2	4	TAQ6M50B250	6	7.5	-	-	-	-	-	-	-	-	-	-
30/5A	TAQ2M50B300	2	4	TAQ6M50B300	6	7.5	-	-	-	-	-	-	-	-	-	-
40/5A	TAQ2M50B400	2	4	TAQ6M50B400	6	7.5	-	-	-	-	-	-	-	-	-	-
50/5A	-	-	-	-	-	-	TAQ2L50B500	2	4	TAQ6L50B500	6	7.5	-	-	-	-
60/5A	-	-	-	-	-	-	TAQ2L50B600	2	4	TAQ6L50B600	6	7.5	-	-	-	-
75/5A	-	-	-	-	-	-	TAQ2L50B750	2	4	TAQ6L50B750	6	7.5	-	-	-	-
80/5A	-	-	-	-	-	-	TAQ2L50B800	2	4	TAQ6L50B800	6	7.5	-	-	-	-
100/5A	-	-	-	-	-	-	TAQ2L50C100	2	4	-	-	-	-	-	-	-
Sealable terminal cover	ATACOP13			ATACOP13			ATACOP13			ATACOP13			ATACOP13			

Static Energy Meters

Terminal blocks



Connection to 2- or 3-system 3-phase KWh-meters
 It allows to test or to replace the KWh- meters (by a standard meter),
 without disconnecting the current circuit
 Max. voltage 500V
 Max. current 57A
 Sealable protection cover

Item	AV Terminal blocks
	Description
AV201	3-phase Aron 2 CT connection, input/output rear connection cables (holes on insulating base)
AV202	3-phase + neutral 3 CT connection, input/output rear connection cables (holes on insulating base)
AV204	3-phase + neutral 3 CT connection, input /outpout front connection cables (holes on transparent cover)



AVKIT4 AVKIT4Q

Item	Accessories
	Description
AVKIT4	Wall mounting adapter (103x72mm)
AVKIT4Q	Wall mounting adapter (96x96mm)

Technical features

MECHANICAL FEATURES	
Housing	insulating base + sealable cover
Insulating base material	self-extinguishing Kelon (Keramic + Nylon)
Sealable cover material	cellulose acetate
Sealable terminals	Yes
Weight	700 grams (AV201) - 1100 grams (AV202)
Connections type	screw terminals
Rigid cable	max 6mm ²
Flexible cable	max 6mm ²

Static Energy Meters

Conversion table NEW -OLD item codes



	Description	NEW item code	OLD item code
NO MID VERSION	Conto D2 63A DIR Modbus Double Tarif	CE2DF3DTCL1	CE20195A4
	Conto D2 63A DIR Pulse	CE2DF30PCL1	CE20195A2
	Conto D4 63A DIR Pulse	CE4DF30PCL1	CE4DT06A2 CE4DT06A23F
	Conto D4 63A DIR Modbus Double Tarif	CE4DF3DTCL1	CE4DT06A4 CE4DT06A43F
	Conto D4 63A DIR Mbus Double Tarif	CE4DF3MTCL1	CE4DT06AM
	Conto D4 CT5A Pulse	CE4TB0PCL1	CE4DT14A2 CE4DT12A2
	Conto D4 CT5A Modbus Double Tarif	CE4TBDTCL1	CE4DT14A4 CE4DT14A6 CE4DT12A4 CE4DT12A6
	Conto D4 CT5A Pulse Mbus Double Tarif	CE4TBMTCCL1	CE4DT14AM CE4DT12AM
MID VERSION	Conto D2 63A DIR Modbus Double Tarif MID	CE2DF3DTMID	CE2DMID11
	Conto D2 63A DIR Pulse MID	CE2DF30PMID	CE2DMID12
	Conto D2 63A DIR Mbus MID	CE2DF3MTMID	-
	Conto D4 63A DIR Pulse MID	CE4DF30PMID	CE4DMID32 CE4DMID22
	Conto D4 63A DIR Modbus Double Tarif MID	CE4DF3DTMID	CE4DMID31 CE4DMID21
	Conto D4 63A DIR Mbus Double Tarif MID	CE4DF3MTMID	CE4DMID3M
	Conto D4 CT5A Modbus Double Tarif MID	CE4TBDTMID	CE4DMID01
	Conto D4 CT5A Mbus Double Tarif MID	CE4TBMTCMID	CE4DMID0M

Note: Bus version available starting March 2020



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In accordance with its policy of continuous improvement, the Company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in this catalogue are given as a guide only

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