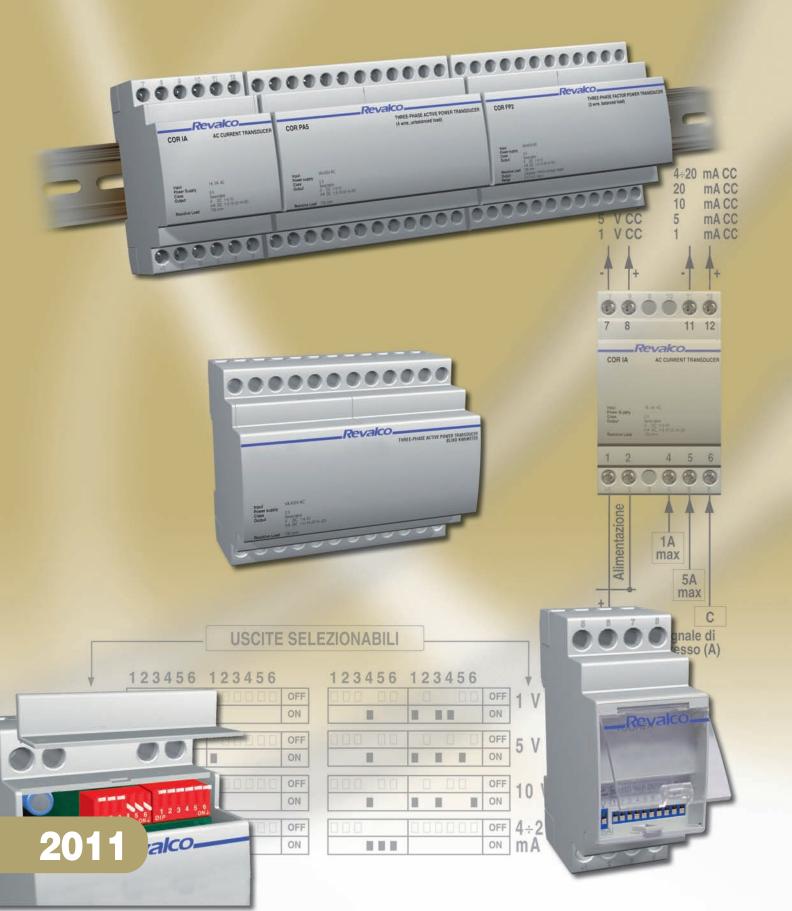


measurement transducers



MEASUREMENT TRANSDUCERS

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THREE PHASE ACTIVE AND REACTIVE POWER TRANSDUCERS Three phase, balanced load, 3 wires without neutral / Three phase, unbalanced load, 3 wires without neutral (ARON) . Three phase, balanced load, 4 wires with neutral	

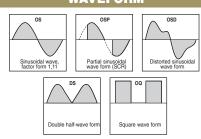
GENERAL DESCRIPTION

- The transducer is a device that measures a given electrical parameter, which is then through electronic circuitry, converted to a DC signal, which is directly proportional to the input, to allow remote indication without loss of accuracy.
- The **Revalco** range of transducers, having galvanic separation between Input and Output, has been developed to a high specification giving the user, confidence with the Accuracy and Linearity over a wide range of measured parameters. Having Low Power Consumption while being unaffected by any changes in Temperature, Vibration or Load, ensures this range is suitable for many applications in the Power Monitoring and Distribution fields.
- **Revalco** transducers have been designed with the ever changing needs of the market in mind. Each item has incorporated the ability to select any of the recognised outputs of both DC mA and DC V by simple selection of minidip keys located under a removable section of the upper case wall
- Standards: EN61010-1; EN60688; EN61000-6-4; EN61000-6-2

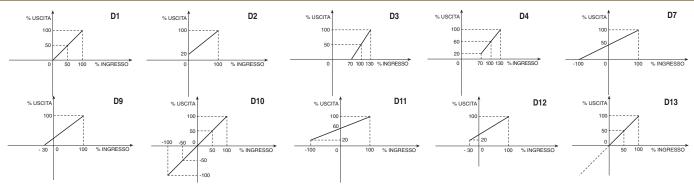
ORDERING DATA

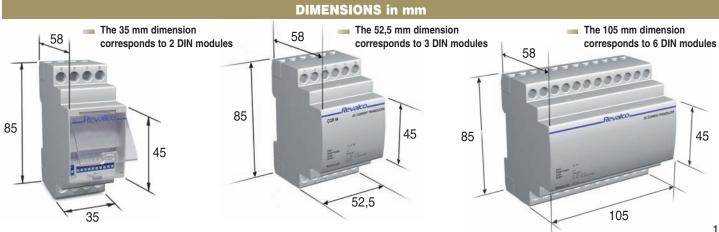
- The three phase active and reactive power transducers are calibrated with the following standard values:
 - Current input $\,$ 5A and $\,$ the primary values are selectable by minidips $\,$ Voltage input $\,$ 400V $\,$
- On request it is possible to calibrate the transducers with the following parameters which must be indicated when ordering: Current input 1A
 - Voltage input: 100/√3/V, 110/√3V, 100V, 110V, 230V, 440V, 500V
- When ordering, the end scale value must be indicated

WAVEFORM

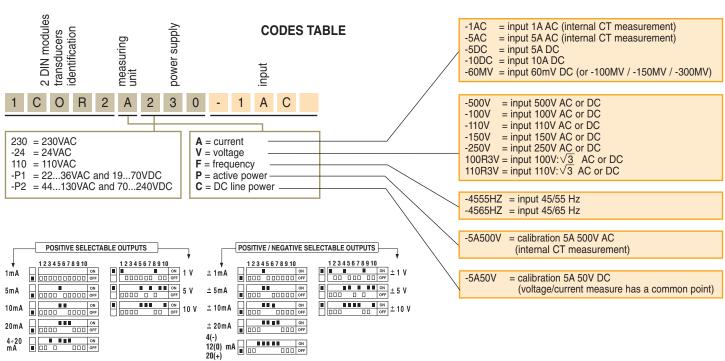


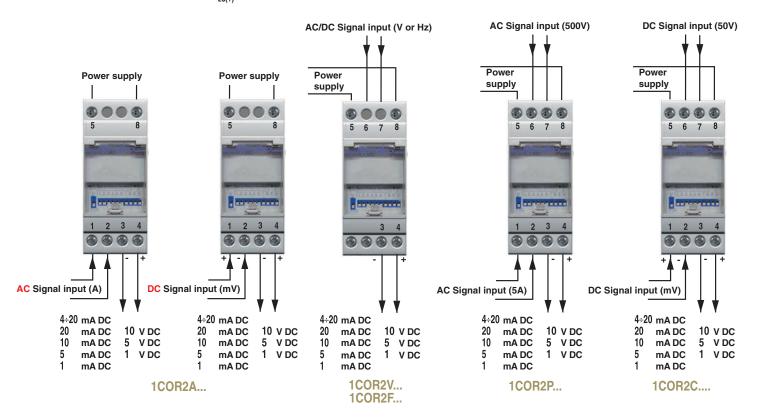
LINEARITY DIAGRAMS BETWEEN INPUTS AND OUTPUTS





EASUREMENT TRANSDUCERS - TRUE RMS SINGLE PHASE Selectable output nominal values 1-5-10VDC and 1-5-10-20-4/20mADC Auxiliary power supply: see table Input nominal values: see table ±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mA DC Response time ≤ 300 ms Class 0,5 Dimensions: 2 DIN modules Transparent sealable front cover Resistive load: 700Ω 1COR2A 1COR2P. 1COR2C 1COR2V.. 1COR2F. **Current transducers** 230 Voltage transducers 230 Frequency transducers 230 Single phase active power transducers 230 DC line power transducers 230 Sole power supply 24VAC Sole power supply 110VAC 24 110 Sole power supply 22...36VAC and 19...70VDC -P1 Sole power supply 44...130VAC and 70...240VDC -P2 = input 1A AC (internal CT measurement) = input 5A AC (internal CT measurement) **CODES TABLE** -5AC





EASUREMENT TRANSDUCERS

CURRENT TRANSDUCERS

SELF SUPPLIED

1A

 300Ω

1CORIAA5 20

5A

20 mA CC

 300Ω

- NOMINAL INPUT VALUES

- NOMINAL OUTPUT VALUES

- RESISTIVE LOAD

- MEASURING RANGE

- ACCURACY CLASS

- OVERLOAD

- RESPONSE TIME

- ALTERNATED RESIDUAL

- OPERATING FREQUENCY

- BURDEN

- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS

OPERATING TEMPERATURE

- INPUT WAVE FORM

- DIMENSIONS / WEIGHT kg.

1CORIAA1 20 1CORIAA5 10 1CORIAA1 10

> 1A 10 V CC

 $>10k\Omega$

5A 10 V CC

20 mA CC $>10k\Omega$

 $0 \div ln$

Permanent: 1,2 In Instantaneous: 10 In for 1 sec.

≤ 300 ms

≤ 2% 50/60 Hz

3 VA 2kV for 1min at 50Hz

> 0 °C ÷ +55 °C OS

2 DIN modules / 0,25

- Different technical characteristic can be considered, under specific requests



EXTERNAL POWER SUPPLY

- AUXILIARY SUPPLY (separate)

- NOMINAL INPUT VALUES

- NOMINAL OUTPUT VALUES (selectable)

- RESISTIVE LOAD

- MEASURING RANGE

- ACCURACY CLASS

- OVERLOAD

- RESPONSE TIME

- ALTERNATED RESIDUAL

- OPERATING FREQUENCY

- BURDEN

- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS

• insulation between inputs, outputs, power supply

• insulation between the all circuits and earth

- OPERATING TEMPERATURE

- INPUT WAVE FORM

- DIMENSIONS / WEIGHT Kg.

230V AC standard

1A and 5A present on the same transducer

1 - 5 - 10 VDC and 1 - 5 - 10 - 20 - 4/20 mA DC 700Ω

0 ÷ In

0.5

Permanent: 2 In Instantaneous: 10 In for 1 sec.

≤ 300 ms ≤ 1% 50/60 Hz

current circuit: $\leq 0.8 \text{ VA}$ - power supply: $\leq 4 \text{VA}$

2kV for 1min at 50Hz 4kV for 1min at 50Hz 0 °C \div +55 °C

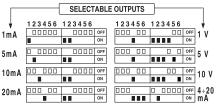
OS

6 DIN modules (3 DIN modules) / 0,54 (0,27)

- Different technical characteristic can be considered, under specific requests

DC CURRENT - 1CORIC

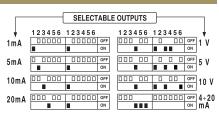
The selection of the required output is achieved by adjusting the minidip keys as described in the 1mA following diagram:



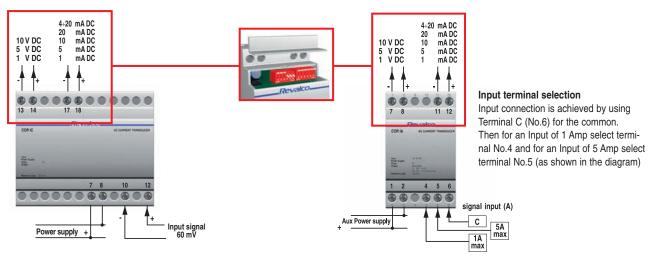
Where a Voltage output is required connection is by terminal N 13 and 14: for Current output connect to terminals N 17 and 18.

AC CURRENT - 1CORIA

The selection of the required output is achieved by adjusting the minidip keys as described in the following diagram:



Where a Voltage output is required connection is by terminal N 7 and 8; for Current output connect to terminal N 11 and 12.



VOLTAGE TRANSDUCERS

SELF SUPPLIED

ICURUAA	ICURUAA	ICURUAA	ICURUAA	ICURUAA	ICURUAA	ICURUAA	ICURUA
100 20	100R3 20	230 20	400 20	100 10	100R3 10	230 10	400 10
100V	100:√3V	230V	400V	100V	100:√3V	230V	400V
20 mA DC	20 mA DC	20 mA DC	20 mA DC	10 V DC	10 V DC	10 V DC	10 V DC

>10k0

 300Ω - MEASURING RANGE 0 ÷ In

 300Ω

- ACCURACY CLASS

- OVERLOAD Permanent: 1,2 In Instantaneous: 10 In for 1 sec. - RESPONSE TIME ≤ 300 ms

3000

3000

- ALTERNATED RESIDUAL ≤ 2% - OPERATING FREQUENCY 50/60 Hz - BURDEN 3 VA - GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS 2kV for 1min at 50Hz

- OPERATING TEMPERATURE 0 °C ÷ +55 °C - INPUT WAVE FORM OS

- Different technical characteristic can be considered, under specific requests



EXTERNAL POWER SUPPLY

- AUXILIARY SUPPLY (separate)

- NOMINAL INPUT VALUES

- DIMENSIONS / WEIGHT Kg.

- NOMINAL INPUT VALUES - NOMINAL OUTPUT VALUES

- RESISTIVE LOAD

- NOMINAL OUTPUT VALUES (selectable)

- RESISTIVE LOAD

- MEASURING RANGE

- ACCURACY CLASS

- OVERLOAD

- RESPONSE TIME

- ALTERNATED RESIDUAL

- OPERATING FREQUENCY

- BURDEN

- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS

• insulation between inputs, outputs, power supply

• insulation between the all circuits and earth

- OPERATING TEMPERATURE

- INPUT WAVE FORM

- DIMENSIONS / WEIGHT Kg.

230V AC standard

to be specified when ordering

2 DIN modules / 0,25

1 - 5 - 10 VDC and 1 - 5 - 10 - 20 - 4/20 mA DC

700Ω 0 ÷ In 0.5

Permanent: 2 In Instantaneous: 10 In for 1 sec.

> ≤ 300 ms ≤ 1% 50/60 Hz

current circuit: ≤ 0,8 VA - power supply: ≤ 4VA

2kV for 1min at 50Hz 4kV for 1min at 50Hz 0 °C ÷ +55 °C

OS

6 DIN modules (3 DIN modules) / 0,54 (0,27)

- Different technical characteristic can be considered, under specific requests

DC VOLTAGE - 1CORUC

The selection of the required SELECTABLE OUTPUTS output is achieved by adjusting 123456 ____ OFF 123456 123456 the minidip keys as described 1mA in the following diagram: □ □ □ □ OFF
■ ON 5mA ____OFF 000 00 OFF 20mA

Where a Voltage output is required connection is by terminal Nos, 13 and 14 and for Current output connect to terminal Nos. 17 and 18.

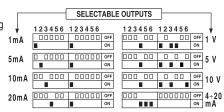
AC VOLTAGE - 1CORUA

 $>10k\Omega$

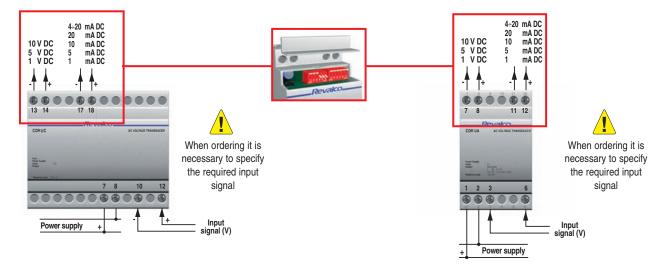
>10k0

 $>10k\Omega$

The selection of the required output is achieved by adjusting the minidip keys as described in the following diagram:



Where a Voltage output is required connection is by terminal Nos, 7 and 8 and for Current output connect to terminal Nos,11 and 12.



EASUREMENT TRANSDUCERS - 1 DIN MODULE

TRANSDUCERS CURRENT

OUTPUT 4/20mA

1CORIC1-10A | 1CORIC1-15A | 1CORIC1-20A | 1CORIC1-25A 24VDC +/- 10%

32mA no load, 36 mA at 4mA

41 mA at 12mA, 47mA at 20mA

60A

500Ω max

1%

1 sec

2kV for 1min at 50Hz

20A DC

 $2 \text{ m}\Omega$

0.8 W

25A DC

 $1~\text{m}\Omega$

0,625 W

25A DC

1 m Ω

0,625 W

15A DC

 $3 \text{ m}\Omega$

0,675 W

- AUXILIARY SUPPLY

- BURDEN

- INPUT VALUES (single or bipolar to specify when ordering) - INTERNAL SHUNT (resistance)

- DISSIPATION POWER

- MAXIMUM CURRENT FOR 1 sec

RESISTIVE LOAD

ACCURACY CLASS

- RESPONSE TIME

GALVANIC SEPARATION (insulation between inputs, outputs and power supply)

TEMPERATURE

- DIMENSIONS / WEIGHT kg.

- READING FILTER

- STANDARDS

10A DC

 $3 \; \text{m} \Omega$

0.3 W

10A DC

 $3 \; \text{m} \Omega$

0,3 W

-5 °C ÷ +55 °C 1 DIN module / 0.27 YES

CE. EN 61010-1. EN 60742. EN 61000-6-4. EN 61000-6-2

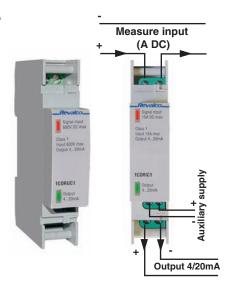
- FUNCTIONING INDICATORS Red led (actual measure): it flashes during the measurement of input current

Green led (active output): it flashes while the current value is converting

15ADC

 $3~\text{m}\Omega$

0,675 W



OUTPUT RS485 - Address and speed selectable by frontal minidip

20A DC

 $2\;\text{m}\Omega$

0,8 W

1CORIC1-10A-RS | 1CORIC1-15A-RS | 1CORIC1-20A-RS | 1CORIC1-25A-RS 24VDC +/- 10%

70mA

60A

 500Ω max

1%

1 sec

2kV for 1min at 50Hz

-5 °C ÷ +55 °C

1 DIN module / 0,27

YES

- AUXILIARY SUPPLY

- BURDEN - INPUT VALUES

(single or bipolar to specify when ordering)

- INTERNAL SHUNT (resistance)

DISSIPATION POWER

- MAXIMUM CURRENT FOR 1 sec

RESISTIVE LOAD

ACCURACY CLASS RESPONSE TIME

GALVANIC SEPARATION

(insulation between inputs, outputs and power supply)

TEMPERATURE

- DIMENSIONS / WEIGHT kg.

- STANDARDS

- READING FILTER

CE, EN61010-1, EN60688, EN61000-6-4, EN61000-6-2

- FUNCTIONING INDICATORS Green led (actual measure): it flashes during the measurement of input current

- MAX 32 DEVICES ON THE SAME RING, FOR MORE QUANTITIES USE REPEATERS OR RS485 CONCENTRATOR

Measure input (A DC) Auxiliary supply Output RS485 MODBUS RTU

Selection of binary MODBUS node number

Addres	s Dip 8 (H)	Dip 7	Dip 6	Dip 5	Dip 4	Dip 3	Dip 2	Dip 1(L)
1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
253	ON	ON	ON	ON	ON	ON	OFF	ON

Note: node 0 selection cannot be used (module doesn't answer)

Selection of RS485 speed

Speed (bps)	Dip 12	Dip 11	Dip 10	Dip 9	
9600	OFF	OFF	OFF	OFF	
19200	OFF	OFF	OFF	ON	
38400	OFF	OFF	ON	OFF	
57600	OFF	OFF	ON	ON	
115200	OFF	ON	OFF	OFF	

VOLTAGE TRANSDUCERS

OUTPUT 4/20mA

- AUXILIARY SUPPLY

- RESISTIVE LOAD

- ACCURACY CLASS

- BURDEN

1CORUC1-600V | 1CORUC1-1K2V 24VDC +/- 10% 32mA no load, 36 mA at 4mA 41 mA at 12mA, 47mA at 20mA 600 VDC max 1200 VDC max

5000 max 1%

1 sec

- RESPONSE TIME - GALVANIC SEPARATION

- INPUT VALUES single pole

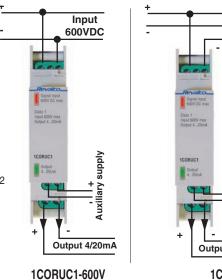
(insulation between inputs, outputs and power supply) 2kV for 1min at 50Hz - TEMPERATURE -5 °C ÷ +55 °C - DIMENSIONS / WEIGHT kg 1 DIN module / 0,27

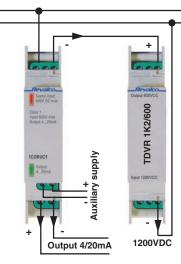
- READING FILTER YES

CE, EN 61010-1, EN 60742, EN 61000-6-4, EN 61000-6-2 - STANDARDS

- FUNCTIONING INDICATORS

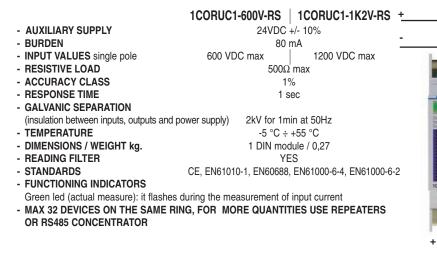
Red led (actual measure): it flashes during the measurement of input current Green led (active output): it flashes while the current value is converting

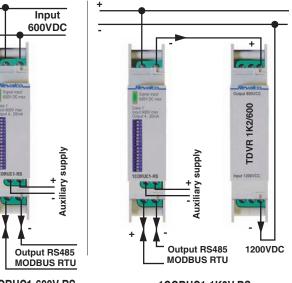




1CORUC1-1K2V

OUTPUT RS485 - Address and speed selectable by frontal minidip





1CORUC1-600V-RS

1CORUC1-1K2V-RS

Selection of binary MODBUS node number

Addres	s Dip 8 (H)	Dip 7	Dip 6	Dip 5	Dip 4	Dip 3	Dip 2	Dip 1(L)
1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
253	ON	ON	ON	ON	ON	ON	OFF	ON

Note: node 0 selection cannot be used (module doesn't answer)

Selection of RS485 speed

Speed (bps)	Dip 12	Dip 11	Dip 10	Dip 9
9600	OFF	OFF	OFF	OFF
19200	OFF	OFF	OFF	ON
38400	OFF	OFF	ON	OFF
57600	OFF	OFF	ON	ON
115200	OFF	ON	OFF	OFF

85 CONCENTRATOR - 1RCD1485

Impulses concentrator for 2 32 devices in one sole serial output RS485

- AUXILIARY SUPPLY 24VDC +/- 10% - BURDEN 80mA

serial RS485 MODBUS RTU SLAVE with address and transmission speedy selectable by a frontal minidip - INPUT

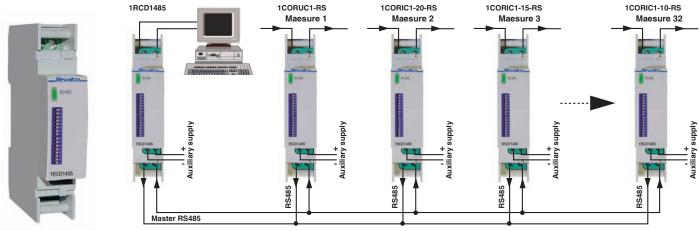
- OUTPUT serial RS485 (9600 Bps) MODBUS RTU master to the transducers (max 32)

- GALVANIC SEPARATION (insulation between RS485); 2kV for 1min at 50Hz (high frequency transformer)
- TEMPERATURE
-5 °C + +55 °C
- DIMENSIONS / WEIGHT kg. 1 DIN module / 0,27

DATA CONTROL Software CRC

- STANDARDS CE, EN 61010-1, EN 60742, EN 61000-6-4, EN 61000-6-2

- FUNCTIONING INDICATORS Red = TX master, Yellow = RX master, Green = TX slave, White = RX slave



Selection of binary MODBUS node number

Addres	ss Dip 8 (H)	Dip 7	Dip 6	Dip 5	Dip 4	Dip 3	Dip 2	Dip 1(L)
1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
253	ON	ON	ON	ON	ON	ON	OFF	ON

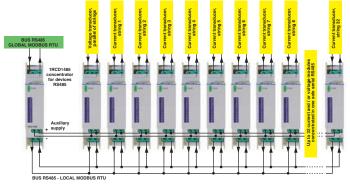
Note: node 0 selection cannot be used (module doesn't answer)

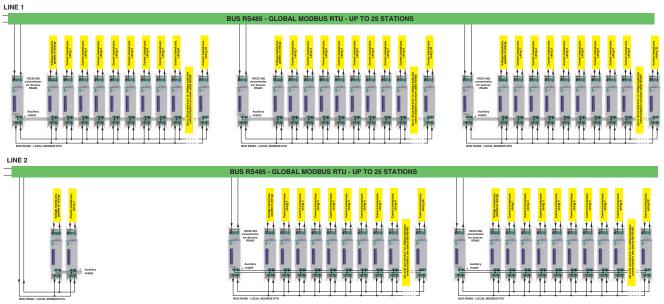
Selection of RS485 speed

Speed (bps)	Dip 12	Dip 11	Dip 10	Dip 9
9600	OFF	OFF	OFF	OFF
19200	OFF	OFF	OFF	ON
38400	OFF	OFF	ON	OFF
57600	OFF	OFF	ON	ON
115200	OFF	ON	OFF	OFF

H

- It is possible to combine several current and/or voltage modules up to 32 units $\stackrel{\cdot}{\text{maximum}}$ with the scope to realize one local measurement unit.
- Not necessarily these modules need to be matched; they can be deployed in an area and then concentrated on the global bus.
- A concentrator module collects inside it, automatically, all measurement data present on the local bus and makes them available, all together, on the global bus having as reference only one modbus address.
- The measures collection system can be a mix of local units concentrated, and individual modules up to the saturation of modbus addresses.
- The whole system can be designed flexibly, modified at any time, easily expanded or supplemented in subsequent times
- Modules allow the removal or installation also in the presence of auxiliary power





POWER FACTOR TRANSDUCERS

1CORFP10 - 1CORFP20

The transducer have galvanic separation between inputs and outputs and the capability to offer multiple choice by terminal selection and 8 outputs (±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mA DC). It is also possible to select the required conversion between:

- proportional to the phase angle, with output 1mA DC (in degrees) for connection with an analogue measuring instrument.
- proportional to $\cos \varphi$ with output ± 1 , ± 5 , ± 10 , ± 20 , $\pm 4/20$ mA and ± 1 , ± 5 , ± 10 V for all other use
- AUXILIARY SUPPLY (separate)
- NOMINAL INPUT VALUES VOLTAGE
- NOMINAL OUTPUT VALUES (selectable)
- RESISTIVE LOAD / ACCURACY CLASS
- **MEASURING RANGE**
- **OVERLOAD**
- RESPONSE TIME / ALTERNATED RESIDUAL
- BURDEN
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS
- OPERATING TEMPERATURE / INPUT WAVE FORM
- DIMENSIONS / WEIGHT Kg.
- Different technical characteristic can be considered, under specific requests

1CORFP10 - Single phase

230V AC standard 230V AC 50/60 Hz current: 5A (1A on 1CORFP...B type) 1CORFP20 - Three phase, balanced load, 3 wires

230V / 400V AC standard 400V AC 50/60 Hz

current: 5A (1A on 1CORFP...B type)

 ± 1 , ± 5 , ± 10 VDC and ± 1 , ± 5 , ± 10 , ± 20 , 4/20 mA DC

 $700\Omega \, \text{max} \, / \, 0,5$

0,5 (cap) - 1 - 0,5 (ind) standard

Permanent: 2 ln / 1.2 Un - Instantaneous: 10 ln / 2 Un for 1 sec

 \leq 300 ms / \leq 1%

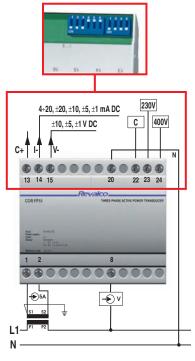
voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA insulation between inputs, outputs, power supply 2kV for 1min at 50Hz insulation between the all circuits and earth 4kV for 1min at 50Hz

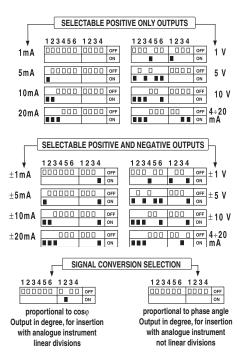
 $0 \, ^{\circ}\text{C} \div +55 \, ^{\circ}\text{C} / \text{OS} - \text{OSD} \text{ (schemes D10, D2)}$

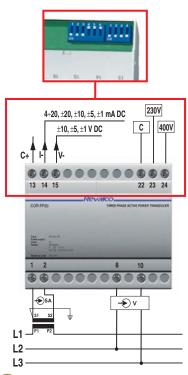
6 DIN modules / 0,50

1CORFP10 1CORFP20

The selection of the required output is achieved by adjusting the minidip keys as described in the following diagram: where a Voltage output is required connection is by terminal Nos, 13 and 15 and for Current output connect to terminal Nos, 13 and 14. The auxiliary Power Supply is achieved by: use terminal 22 as the common connection; for 230V connect to Terminal 23; for 400V connect to Terminal 24







FREQUENCY TRANSDUCERS

1CORF

power supply ≤ 4VA

2kV for 1min at 50Hz

1 - 5 - 10 - VDC and 1 - 5 - 10 - 20 - 4/20 mA DC

45 / 65 Hz standard (other on request)

230V AC standard

Permanent: 1,2 Un

 \leq 300 ms / \leq 1%

voltage ≤ 1VA

100V ÷ 500V AC

7000./0.5

- AUXILIARY SUPPLY (separate)
- NOMINAL INPUT VALUES VOLTAGE - NOMINAL OUTPUT VALUES (selectable)
- RESISTIVE LOAD / ACCURACY CLASS
- MEASURING RANGE
- OVERLOAD
- RESPONSE TIME / ALTERNATED RESIDUAL
- BURDEN
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS
 - insulation between inputs, outputs, power supply

• insulation between the all circuits and earth

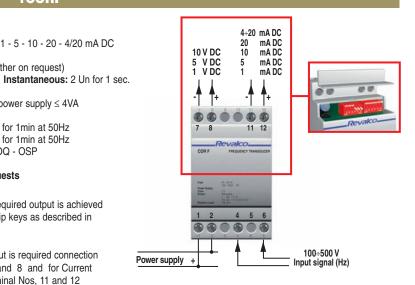
4kV for 1min at 50Hz - OPERATING TEMPERATURE / INPUT WAVE FORM 0 °C ÷ +55 °C / OS - OQ - OSP - DIMENSIONS / WEIGHT Kg. 3 DIN modules / 0.25

- Different technical characteristic can be considered, under specific requests

SELECTABLE OUTPUTS 123456 123456 123456 123456 OFF ON 1 V 00000 1mA 0 0 0 0 V □ □ □ □ □ □ □ □ OFF 5mA 0 OFF ON V | | | | | OFF 10mA 000 ON MΔ

The selection of the required output is achieved by adjusting the minidip keys as described in the diagram.

Where a Voltage output is required connection is by terminal Nos, 7 and 8 and for Current output connect to terminal Nos. 11 and 12



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SINGLE PHASE ACTIVE AND REACTIVE POWER TRANSDUCERS

1CORPA10 / 1CORPR10 - 1CORPA10485 / 1CORPR10485

These transducers have the galvanic separation between inputs and outputs, and have the capability to offer multiple choice auxiliary supply of (230V, 400V) by terminal selection and 8 Outputs (1-5-10 VDC and 1-5-10-20-4/20 mA DC), by minidip key located under a removable section of the upper case wall and by terminal selection.

The standard calibration is: 100V, 5A = 500 W (var) 230V, 5A = 1000 W (var) 400V, 5A = 2000 W (var)

Active Power Reactive Power

- SELECTABLE BIDIRECTIONAL OUTPUTS
- SELECTABLE BIDIRECTIONAL OUTPUTS WITH SERIAL OUTPUT RS485
- MODBUS SLAVE RTU PROTOCOL
- INPUT WAVE FORM
- NOMINAL OUTPUT VALUES (selectable)
- AUXILIARY SUPPLY (separate)
- NOMINAL INPUT VALUES
- RESISTIVE LOAD / MEASURING RANGE
- STANDARD CALIBRATION
- ACCURACY CLASS / OPERATING FREQUENCY
- OVERLOAD
- RESPONSE TIME / ALTERNATED RESIDUAL
- BURDEN
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS
- OPERATING TEMPERATURE / DIMENSIONS / WEIGHT Kg.

<u>!</u>

Different technical characteristic can be considered, under specific requests. The software is available, free of charge, on our internet address www.revalco.it

1CORPA10 1CORPR10

1CORPA10485 1CORPR10485

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OS - OSD (schemes D10, D2)

 ± 1 , ± 5 , ± 10 VDC and ± 1 , ± 5 , ± 10 , ± 20 , 4/20 mADC

230V / 400V AC standard

voltage: 230V standard - current: 5A (1A on request)

 $700\Omega \text{ max} / 0 \div \text{Pn} (0 \div \text{Qn})$

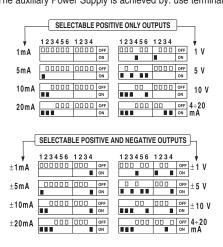
100V,5A=500W (var) 230V,5A=1000W (var) 400V,5A=2000W (var) 0,5 / 50 - 60 Hz

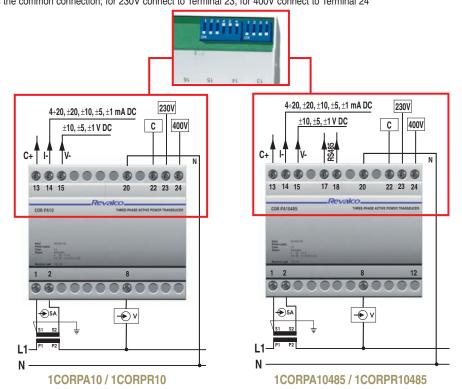
Permanent: 2 ln / 1,2 Un Instantaneous: 10 ln / 2 Un for 1 sec. \leq 300 ms / \leq 1%

voltage circuit \leq 1VA current circuit \leq 0,8VA power supply \leq 4VA insulation between inputs, outputs, power supply 2kV for 1min at 50Hz insulation between the all circuits and earth 4kV for 1min at 50Hz 0 °C \div +55 °C / 6 DIN modules / 0,50

1CORPA10 / 1CORPA10485 - 1CORPR10 / 1CORPR10485

The selection of the required output is achieved by adjusting the minidip keys as described in the following diagram: where a Voltage output is required connection is by terminal Nos, 13 and 15 and for Current output connect to terminal Nos, 13 and 14. The auxiliary Power Supply is achieved by: use terminal 22 as the common connection; for 230V connect to Terminal 23; for 400V connect to Terminal 24



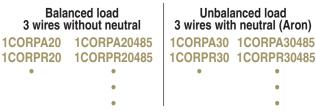


THREE PHASE ACTIVE OR REACTIVE POWER TRANSDUCERS

These transducers have the galvanic separation between inputs and outputs, and have the capability to offer multiple choice auxiliary supply of (230V, 400V) by terminal selection and 8 Outputs (1-5-10 VDC and 1-5-10-20-4/20 mA DC), by minidip key located under a removable section of the upper case wall and by terminal selection. The standard calibration is: 100V, 5A = 1000 W (var) 230V, 5A = 2000 W (var) 400V, 5A = 4000 W (var)

Active Power Reactive Power

- SELECTABLE BIDIRECTIONAL OUTPUTS
- SELECTABLE BIDIRECTIONAL OUTPUTS WITH SERIAL OUTPUT RS485
- MODBUS SLAVE RTU PROTOCOL
- INPUT WAVE FORM
- NOMINAL OUTPUT VALUES (selectable)
- **AUXILIARY SUPPLY (separate)**
- NOMINAL INPUT VALUES
- RESISTIVE LOAD / MEASURING RANGE
- STANDARD CALIBRATION
- ACCURACY CLASS / OPERATING FREQUENCY
- OVERLOAD
- RESPONSE TIME / ALTERNATED RESIDUAL
- BURDEN
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS
- OPERATING TEMPERATURE / DIMENSIONS / WEIGHT Kg.



OS - OSD (schemes D10, D2) ±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mADC 230V / 400V AC standard voltage: 400V standard - current: 5A (1A on request)

 $700\Omega \text{ max} / 0 \div \text{Pn} (0 \div \text{Qn})$

100V,5A=1000W (var) 230V,5A=2000W (var) 400V,5A=4000W (var) 0,5 / 50 - 60 Hz

Permanent: 2 ln / 1,2 Un Instantaneous: 10 ln / 2 Un for 1 sec. ≤ 300 ms / ≤ 1%

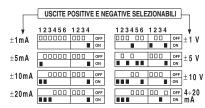
voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA insulation between inputs, outputs, power supply 2kV for 1min at 50Hz insulation between the all circuits and earth 4kV for 1min at 50Hz $0 \,^{\circ}\text{C} \div +55 \,^{\circ}\text{C} / 6 \,^{\circ}\text{DIN modules} / 0.50$

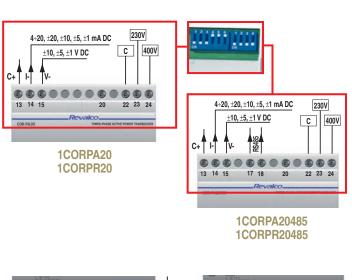
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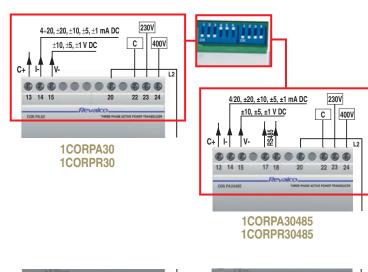
CONNECTION DIAGRAMS

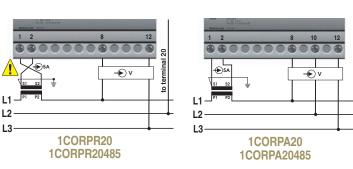
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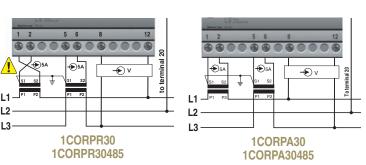












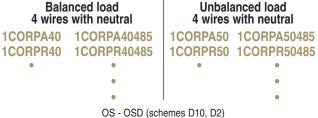
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 ± 1 , ± 5 , ± 10 VDC and ± 1 , ± 5 , ± 10 , ± 20 , 4/20 mADC 230V / 400V AC standard voltage: 400V standard - current: 5A (1A on request)

 $700\Omega \text{ max} / 0 \div \text{Pn} (0 \div \text{Qn})$

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