Revalco®

Made in Italy

measurement transducers

MEASUREMENT TRANSDUCERS

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

POWER SUPPLIES

A.C. CURRENT (for all models)

- Standard power supply 230V +/- 10% a 50/60Hz galvanically insulated
- Other power supply 110V and 24V

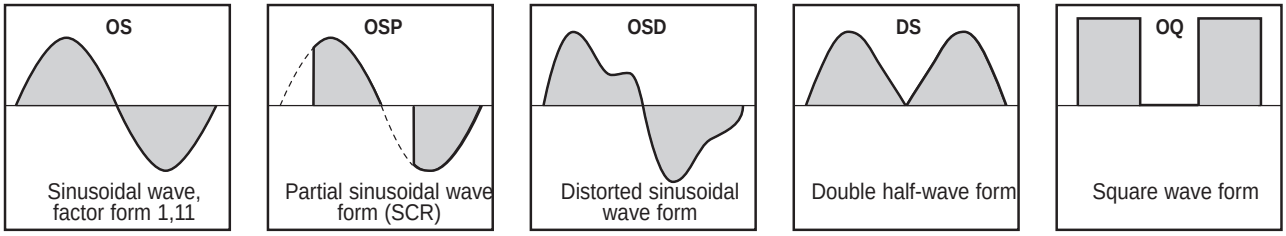
A.C. AND D.C. CURRENT

- Putting “P1” suffix to the standard code, we delivery an instrument with this power supply: 22....36VAC and 19....70VDC
- Putting “P2” suffix to the standard code, we delivery an instrument with this power supply: 44....130VAC and 70....240VDC

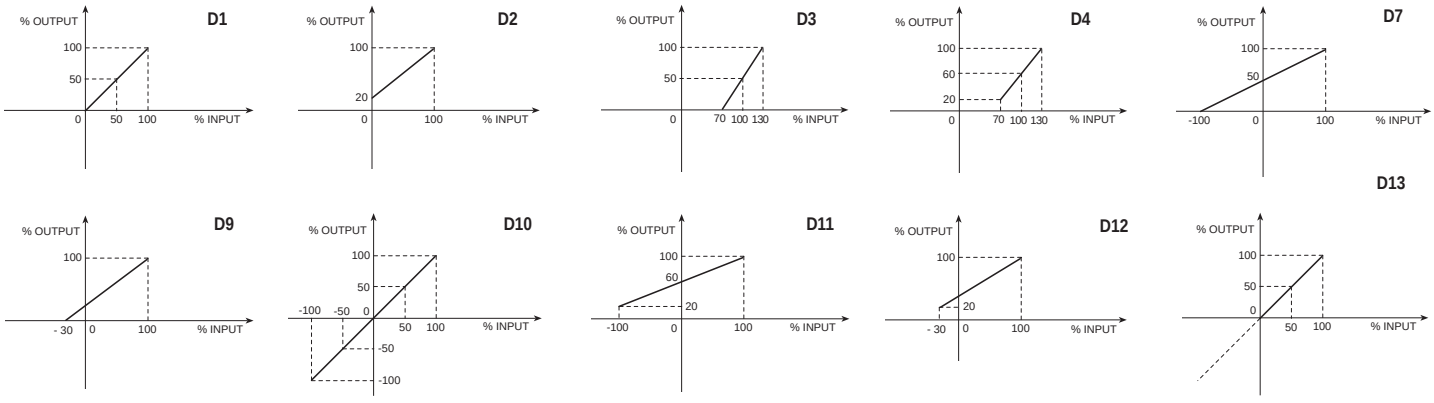
ORDERING DATA

- 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

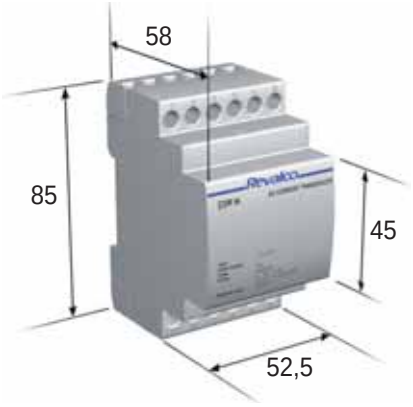
WAVEFORM

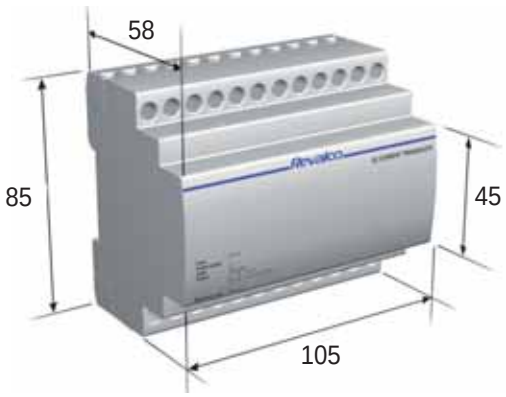


LINEARITY DIAGRAMS BETWEEN INPUTS AND OUTPUTS



DIMENSIONS in mm





- **The 52,5 mm dimension corresponds to 3 DIN modules**
- **The 105 mm dimension corresponds to 6 DIN modules**

MEASUREMENT TRANSDUCERS - TRUE RMS

SINGLE PHASE

- Auxiliary power supply: see table
- Input nominal values: see table
- Response time ≤ 300 ms
- Dimensions: 2 DIN modules
- Selectable output nominal values 1-5-10VDC and 1-5-10-20-4/20mADC
- Resistive load: 700Ω
- Class 0,5
- Transparent sealable front cover

Preliminary range
Contact REVALCO for delivery time information

PRICES ON REQUEST

		1COR2A...	1COR2V...	1COR2F...	1COR2P...
Current transducers	230	•			
Voltage transducers	230		•		
Frequency transducers	230			•	
Single phase active power transducers	230				•
DC line power transducers	230				•
Sole power supply 24VAC	24	•	•	•	•
Sole power supply 110VAC	110	•	•	•	•
Sole power supply 22...36VAC and 19...70VDC	-P1	•	•	•	•
Sole power supply 44...130VAC and 70...240VDC	-P2	•	•	•	•

CODES TABLE

1	C	O	R	2	A	2	3	0	1	A	C	-	-
2 DIN modules transducers identification					measuring unit		power supply			input			

230 = 230VAC
-24 = 24VAC
110 = 110VAC
-P1 = 22...36VAC and 19...70VDC
-P2 = 44...130VAC and 70...240VDC

A = current
V = voltage
F = frequency
P = active power
C = DC line power

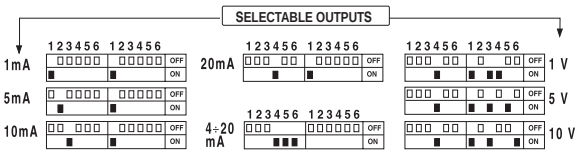
1AC-- = input 1A AC (internal CT measurement)
5AC-- = input 5A AC (internal CT measurement)
5DC-- = input 5A DC
10DC- = input 10A DC
60MV- = input 60mV DC

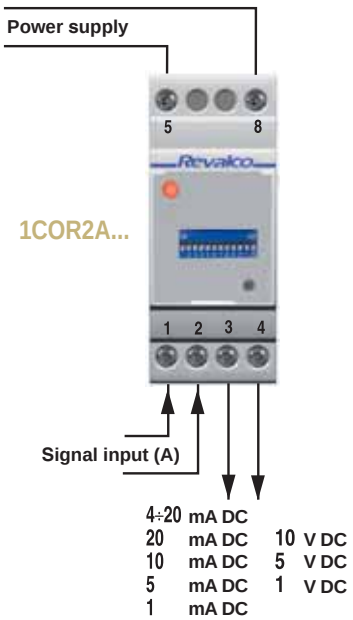
500-- = input 500V AC or DC
100-- = input 100V AC or DC
110-- = input 110V AC or DC
150-- = input 150V AC or DC
250-- = input 250V AC or DC
100R3 = input 100V: $\sqrt{3}$ AC or DC
110R3 = input 110V: $\sqrt{3}$ AC or DC

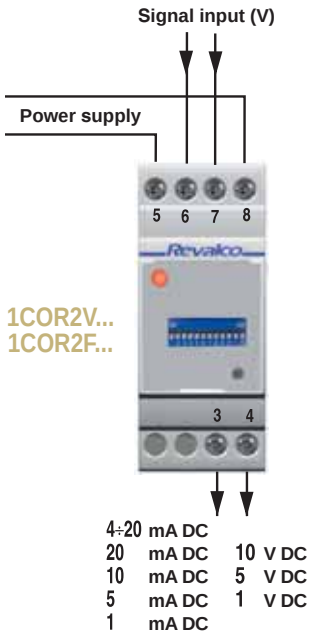
4555- = input 45/55 Hz
4565- = input 45/65 Hz

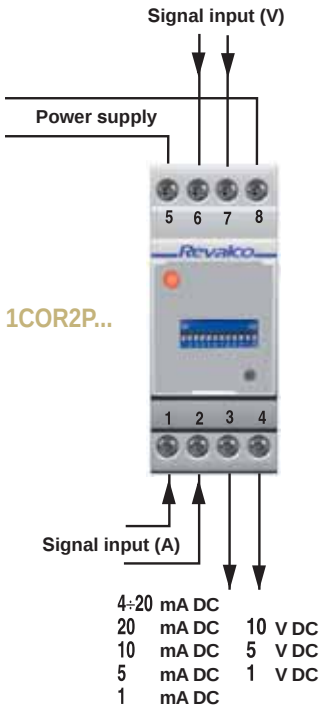
5A500 = calibration 5A 500V AC (internal CT measurement)

5A50- = calibration 5A 50V DC (voltage/current measure has a common point)









MEASUREMENT TRANSDUCERS

CURRENT TRANSDUCERS

SELF SUPPLIED

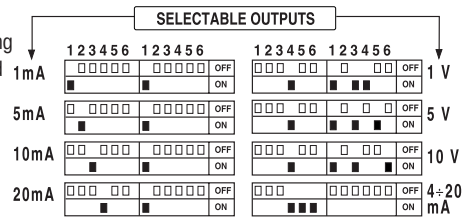
	1CORIAA5 20	1CORIAA1 20	1CORIAA5 10	1CORIAA1 10
- NOMINAL INPUT VALUES	5A	1A	5A	1A
- NOMINAL OUTPUT VALUES	20 mA CC	20 mA CC	10 V CC	10 V CC
- RESISTIVE LOAD	300Ω	300Ω	>10kΩ	>10kΩ
- MEASURING RANGE	0 ÷ In			
- ACCURACY CLASS	1			
- OVERLOAD	**Permanent:** 1,2 In **Instantaneous:** 10 In for 1 sec.			
- RESPONSE TIME	≤ 300 ms			
- 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			
- DIMENSIONS / WEIGHT kg.	2 DIN modules / 0,25			
- Different technical characteristic can be considered, under specific requests				

EXTERNAL POWER SUPPLY

	1CORIA - AC	1CORIC - DC
- AUXILIARY SUPPLY (separate)	230V AC standard	
- NOMINAL INPUT VALUES	1A and 5A present on the same transducer	60 mV standard
- NOMINAL OUTPUT VALUES (selectable)	1 - 5 - 10 VDC and 1 - 5 - 10 - 20 - 4/20 mA DC	
- RESISTIVE LOAD	700Ω	
- MEASURING RANGE	0 ÷ In	
- ACCURACY CLASS	0,5	
- OVERLOAD	**Permanent:** 2 In **Instantaneous:** 10 In for 1 sec.	
- RESPONSE TIME	≤ 300 ms	
- ALTERNATED RESIDUAL	≤ 1%	
- OPERATING FREQUENCY	50/60 Hz	
- BURDEN	current circuit: ≤ 0,8 VA - power supply: ≤ 4VA	power supply: 4VA
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS		
• insulation between inputs, outputs, power supply	2kV for 1min at 50Hz	
• insulation between the all circuits and earth	4kV for 1min at 50Hz	
- OPERATING TEMPERATURE	0 °C ÷ +55 °C	
- INPUT WAVE FORM	OS	
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,27	6 DIN modules / 0,50
- Different technical characteristic can be considered, under specific requests		

1CORIA

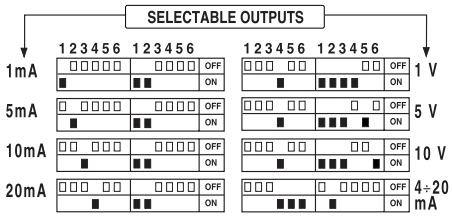
The selection of the required output is achieved by adjusting the minidip keys as described in the following diagram:



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

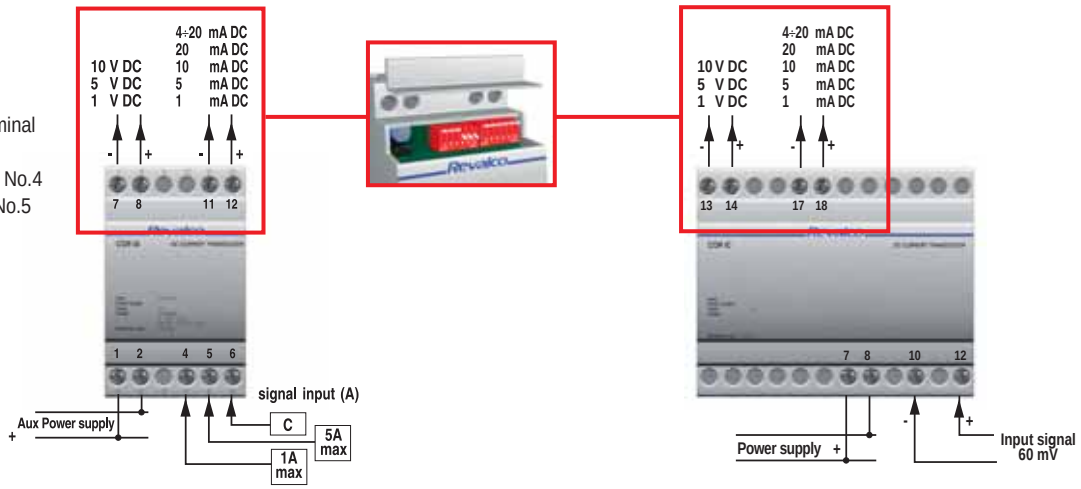
1CORIC

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 14 for Current output connect to terminal Nos, 17 and 18.

Input terminal selection
Input connection is achieved by using Terminal C (No.6) for the common.
Then for an Input of 1 Amp select terminal No.4 and for an Input of 5 Amp select terminal No.5 (as shown in the diagram)



VOLTAGE TRANSDUCERS

SELF SUPPLIED

	1CORUAA 100 20	1CORUAA 100R3 20	1CORUAA 230 20	1CORUAA 400 20	1CORUAA 100 10	1CORUAA 100R3 10	1CORUAA 230 10	1CORUAA 400 10
- NOMINAL INPUT VALUES	100V	100:√3V	230V	400V	100V	100:√3V	230V	400V
- NOMINAL OUTPUT VALUES	20 mA DC	20 mA DC	20 mA DC	20 mA DC	10 V DC	10 V DC	10 V DC	10 V DC
- RESISTIVE LOAD	300Ω	300Ω	300Ω	300Ω	>10kΩ	>10kΩ	>10kΩ	>10kΩ
- MEASURING RANGE	0 ÷ In							
- ACCURACY CLASS	1							
- OVERLOAD	**Permanent:** 1,2 In **Instantaneous:** 10 In for 1 sec.							
- RESPONSE TIME	≤ 300 ms							
- 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							
- DIMENSIONS / WEIGHT Kg.	2 DIN modules / 0,25							

- **Different technical characteristic can be considered, under specific requests**

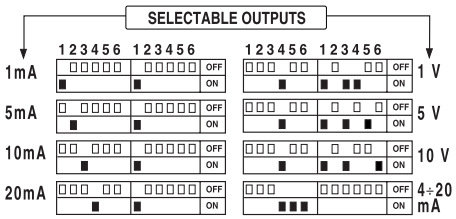
EXTERNAL POWER SUPPLY

	1CORUA - AC	1CORUC - DC
- AUXILIARY SUPPLY (separate)	230V AC standard	
- NOMINAL INPUT VALUES	to be specified when ordering	
- NOMINAL OUTPUT VALUES (selectable)	1 - 5 - 10 VDC and 1 - 5 - 10 - 20 - 4/20 mA DC	
- RESISTIVE LOAD	700Ω	
- MEASURING RANGE	0 ÷ In	
- ACCURACY CLASS	0,5	
- OVERLOAD	**Permanent:** 2 In **Instantaneous:** 10 In for 1 sec.	
- RESPONSE TIME	≤ 300 ms	
- ALTERNATED RESIDUAL	≤ 1%	
- OPERATING FREQUENCY	50/60 Hz	
- BURDEN	current circuit: ≤ 0,8 VA - power supply: ≤ 4VA	power supply: 4VA
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS		
• insulation between inputs, outputs, power supply	2kV for 1min at 50Hz	
• insulation between the all circuits and earth	4kV for 1min at 50Hz	
- OPERATING TEMPERATURE	0 °C ÷ +55 °C	
- INPUT WAVE FORM	OS	
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,27	6 DIN modules / 0,50

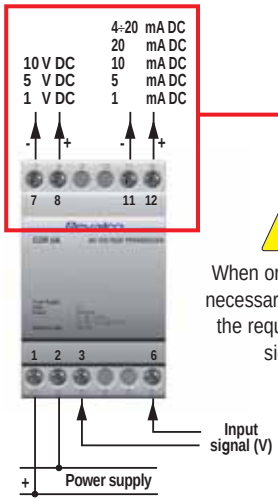
- **Different technical characteristic can be considered, under specific requests**

1CORUA

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



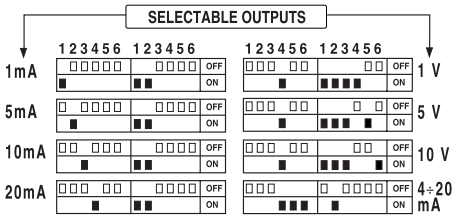
Where a Voltage output is required connection is by terminal Nos, 7 and 8 and for Current output connect to terminal Nos,11 and 12.



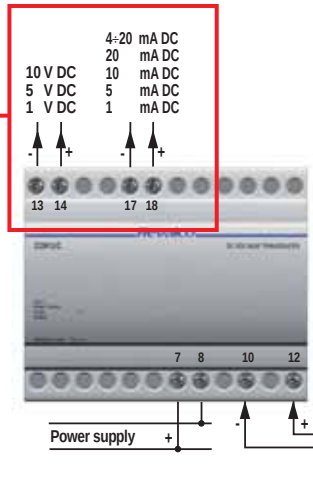
When ordering it is necessary to specify the required input signal

1CORUC

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 14 and for Current output connect to terminal Nos, 17 and 18.

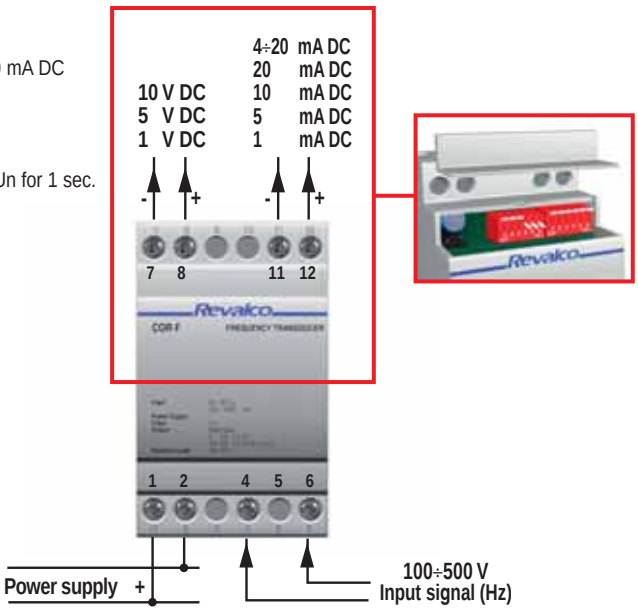


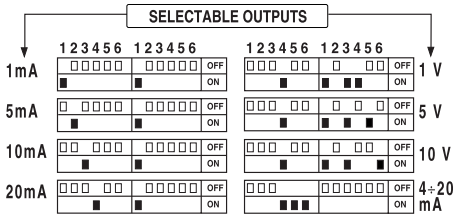
When ordering it is necessary to specify the required input signal

FREQUENCY TRANSDUCERS

1CORF

- **AUXILIARY SUPPLY (separate)** 230V AC standard
- **NOMINAL INPUT VALUES** voltage: 100V ÷ 500V AC
- **NOMINAL OUTPUT VALUES (selectable)** 1 - 5 - 10 - VDC and 1 - 5 - 10 - 20 - 4/20 mA DC
- **RESISTIVE LOAD** 700Ω
- **MEASURING RANGE** 45 / 65 Hz standard (other on request)
- **ACCURACY CLASS** 0,5
- **OVERLOAD** **Permanent:** 1,2 Un **Instantaneous:** 2 Un for 1 sec.
- **RESPONSE TIME** ≤ 300 ms
- **ALTERNATED RESIDUAL** ≤ 1%
- **BURDEN** voltage ≤ 1VA power supply ≤ 4VA
- **GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS**
  - insulation between inputs, outputs, power supply 2kV for 1min at 50Hz
  - insulation between the all circuits and earth 4kV for 1min at 50Hz
- **OPERATING TEMPERATURE** 0 °C ÷ +55 °C
- **INPUT WAVE FORM (page 107)** OS - OQ - OSP
- **DIMENSIONS / WEIGHT Kg.** 3 DIN modules / 0,25
- **Different technical characteristic can be considered, under specific requests**





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

POWER FACTOR TRANSDUCERS

1CORFP10 - 1CORFP20

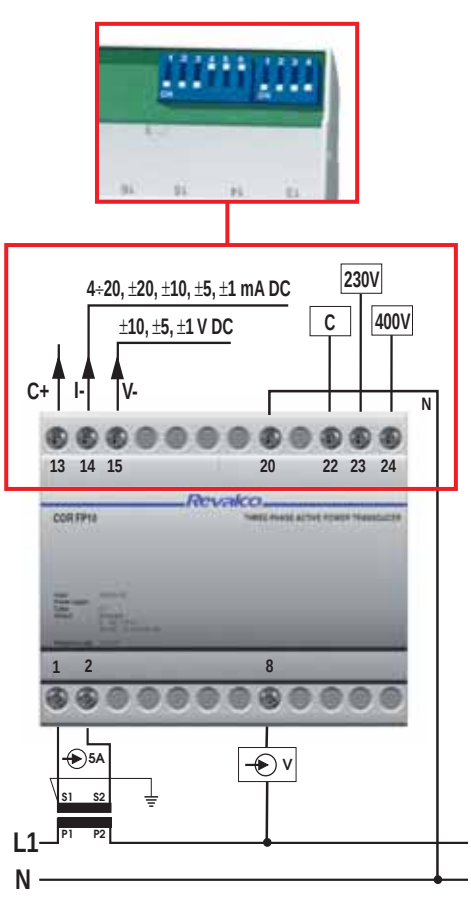
The transducer have galvanic separation between inputs and outputs and the capability to offer multiple choice by terminal selection and 8 outputs (±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mA DC).
It is also possible to select the required conversion between:
- **proportional to the phase angle,** with output 1mA DC (in degrees) for connection with an analogue measuring instrument.
- **proportional to cos φ** with output ±1, ±5, ±10, ±20, ±4/20 mA and ±1, ±5, ±10 V for all other use

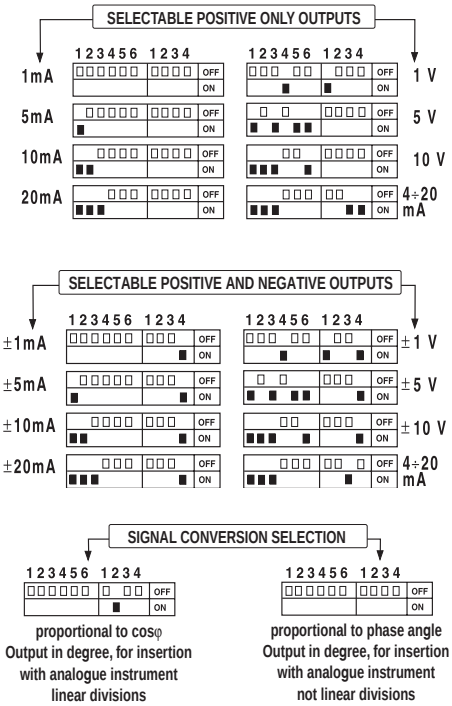
	1CORFP10 - Single phase	1CORFP20 - Three phase, balanced load, 3 wires
- **AUXILIARY SUPPLY (separate)**	230V AC standard	230V / 400V AC standard
- **NOMINAL INPUT VALUES**	voltage: 230V AC current: 5A (1A on 1CORFP...B type)	voltage: 400V AC current: 5A (1A on 1CORFP...B type)
- **NOMINAL OUTPUT VALUES (selectable)**	±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mA DC	
- **RESISTIVE LOAD**	700Ω max	
- **MEASURING RANGE**	0,5 (cap) - 1 - 0,5 (ind) standard	
- **ACCURACY CLASS**	0,5	
- **OVERLOAD**	**Permanent:** 2 In / 1,2 Un - **Instantaneous**: 10 In / 2 Un for 1 sec	
- **RESPONSE TIME**	≤ 300 ms	
- **ALTERNATED RESIDUAL**	≤ 1%	
- **OPERATING FREQUENCY**	50/60 Hz	
- **BURDEN**	voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA	
- **GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS**	insulation between inputs, outputs, power supply 2kV for 1min at 50Hz insulation between the all circuits and earth 4kV for 1min at 50Hz	
- **OPERATING TEMPERATURE**	0 °C ÷ +55 °C	
- **INPUT WAVE FORM**	OS - OSD (schemes D10, D2)	
- **DIMENSIONS / WEIGHT Kg.**	6 DIN modules / 0,50	
- **Different technical characteristic can be considered, under specific requests**		

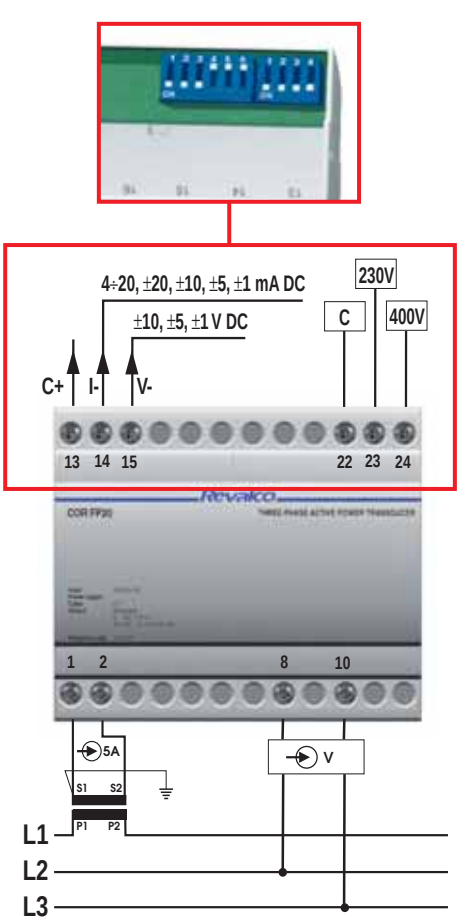
1CORFP10

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







SINGLE PHASE ACTIVE AND REACTIVE POWER TRANSDUCERS

1CORPA10 / 1CORPR10 - 1CORPA10485 / 1CORPR10485

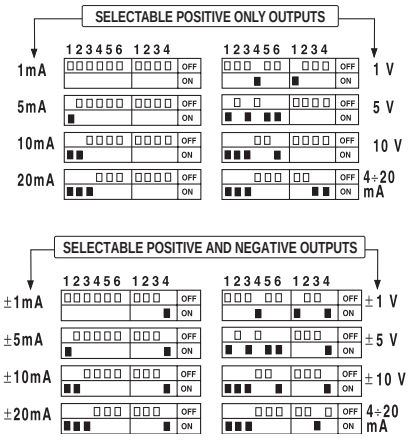
These transducers have the galvanic separation between inputs and outputs, and have the capability to offer multiple choice auxiliary supply of (230V, 400V) by terminal selection and 8 Outputs (1-5-10 VDC and 1-5-10-20-4/20 mA DC), by minidip key located under a removable section of the upper case wall and by terminal selection.
The standard calibration is: 100V, 5A = 500 W (var) 230V, 5A = 1000 W (var) 400V, 5A = 2000 W (var)

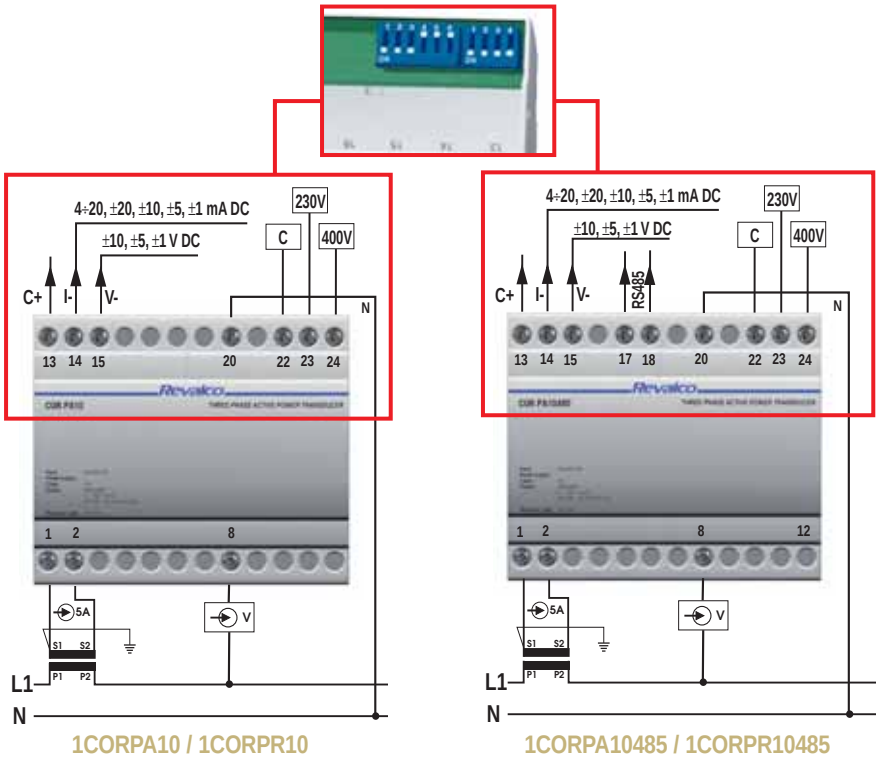
	1CORPA10 1CORPR10	1CORPA10485 1CORPR10485
Active Power	•	•
Reactive Power		•
- SELECTABLE BIDIRECTIONAL OUTPUTS		•
- SELECTABLE BIDIRECTIONAL OUTPUTS WITH SERIAL OUTPUT RS485		
- MODBUS SLAVE RTU PROTOCOL		
- INPUT WAVE FORM	OS - OSD (schemes D10, D2)	
- NOMINAL OUTPUT VALUES (selectable)	±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mADC	
- AUXILIARY SUPPLY (separate)	230V / 400V AC standard	
- NOMINAL INPUT VALUES	voltage: 230V standard - current: 5A (1A on request)	
- RESISTIVE LOAD / MEASURING RANGE	700Ω max / 0 ÷ Pn (0 ÷ Qn)	
- STANDARD CALIBRATION	100V,5A=500W (var) 230V,5A=1000W (var) 400V,5A=2000W (var)	
- ACCURACY CLASS / OPERATING FREQUENCY	0,5 / 50 - 60 Hz	
- OVERLOAD	**Permanent:** 2 In / 1,2 Un **Instantaneous:** 10 In / 2 Un for 1 sec.	
- RESPONSE TIME / ALTERNATED RESIDUAL	≤ 300 ms / ≤ 1%	
- BURDEN	voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA	
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS	insulation between inputs, outputs, power supply 2kV for 1min at 50Hz insulation between the all circuits and earth 4kV for 1min at 50Hz	
- OPERATING TEMPERATURE / DIMENSIONS / WEIGHT Kg.	0 °C ÷ +55 °C / 6 DIN modules / 0,50	

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

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 AND REACTIVE POWER TRANSDUCERS BALANCED LOAD, 3 WIRES WITHOUT NEUTRAL

1CORPA20 / 1CORPR20 - 1CORPA20485 / 1CORPR20485

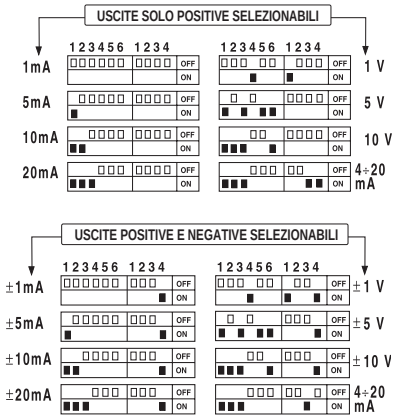
These transducers have the galvanic separation between inputs and outputs, and have the capability to offer multiple choice auxiliary supply of (230V, 400V) by terminal selection and 8 Outputs (1-5-10 VDC and 1-5-10-20-4/20 mA DC), by minidip key located under a removable section of the upper case wall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

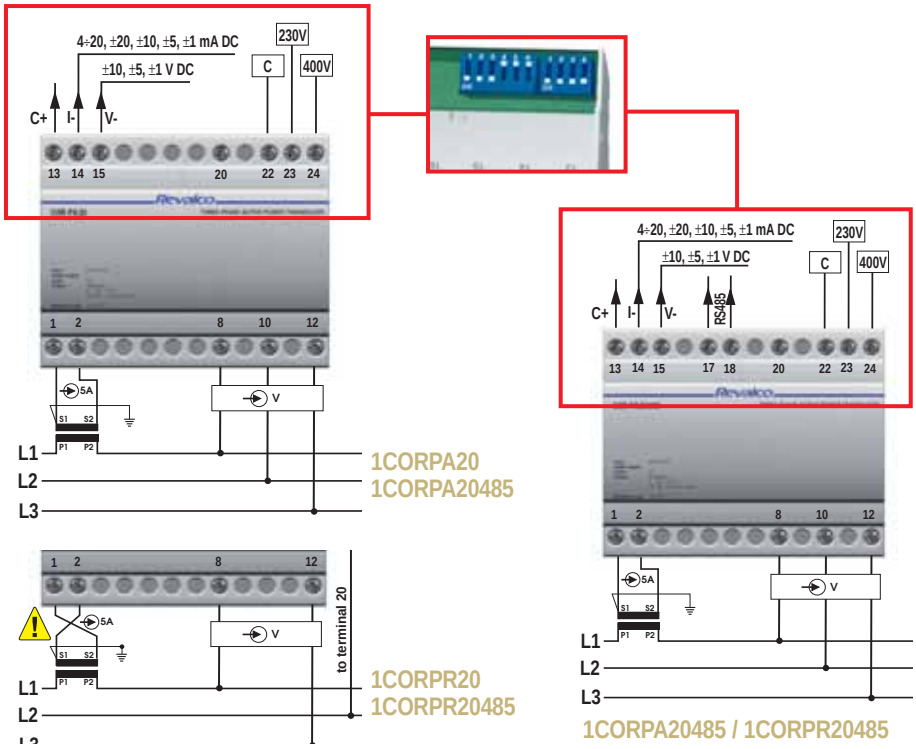
	1CORPA20 1CORPR20	1CORPA20485 1CORPR20485
Active Power	•	•
Reactive Power		•
- SELECTABLE BIDIRECTIONAL OUTPUTS		•
- SELECTABLE BIDIRECTIONAL OUTPUTS WITH SERIAL OUTPUT RS485		
- MODBUS SLAVE RTU PROTOCOL		
- INPUT WAVE FORM	OS - OSD (schemes D10, D2)	
- NOMINAL OUTPUT VALUES (selectable)	±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mADC	
- AUXILIARY SUPPLY (separate)	230V / 400V AC standard	
- NOMINAL INPUT VALUES	voltage: 400V standard - current: 5A (1A on request)	
- RESISTIVE LOAD / MEASURING RANGE	700Ω max / 0 ÷ Pn (0 ÷ Qn)	
- STANDARD CALIBRATION	100V,5A=1000W (var) 230V,5A=2000W (var) 400V,5A=4000W (var)	
- ACCURACY CLASS / OPERATING FREQUENCY	0,5 / 50 - 60 Hz	
- OVERLOAD	**Permanent:** 2 In / 1,2 Un **Instantaneous:** 10 In / 2 Un for 1 sec.	
- RESPONSE TIME / ALTERNATED RESIDUAL	≤ 300 ms / ≤ 1%	
- BURDEN	voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA	
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS	insulation between inputs, outputs, power supply 2kV for 1min at 50Hz	
	insulation between the all circuits and earth 4kV for 1min at 50Hz	
- OPERATING TEMPERATURE / DIMENSIONS / WEIGHT Kg.	0 °C ÷ +55 °C / 6 DIN modules / 0,50	

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

1CORPA20 / 1CORPR20 - 1CORPA20485 / 1CORPR20485

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 AND REACTIVE POWER TRANSDUCERS UNBALANCED LOAD, 3 WIRES WITHOUT NEUTRAL (ARON)

1CORPA30 / 1CORPR30 - 1CORPA30485 / 1CORPR30485

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)

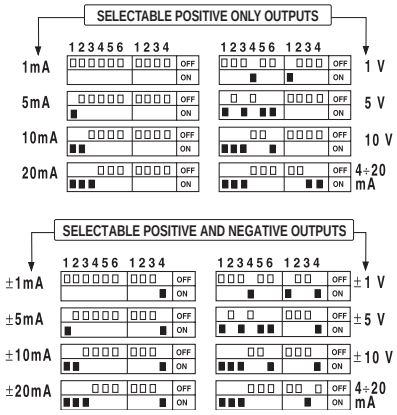
	1CORPA30 1CORPR30	1CORPA30485 1CORPR30485
Active Power	•	•
Reactive Power		•
		•

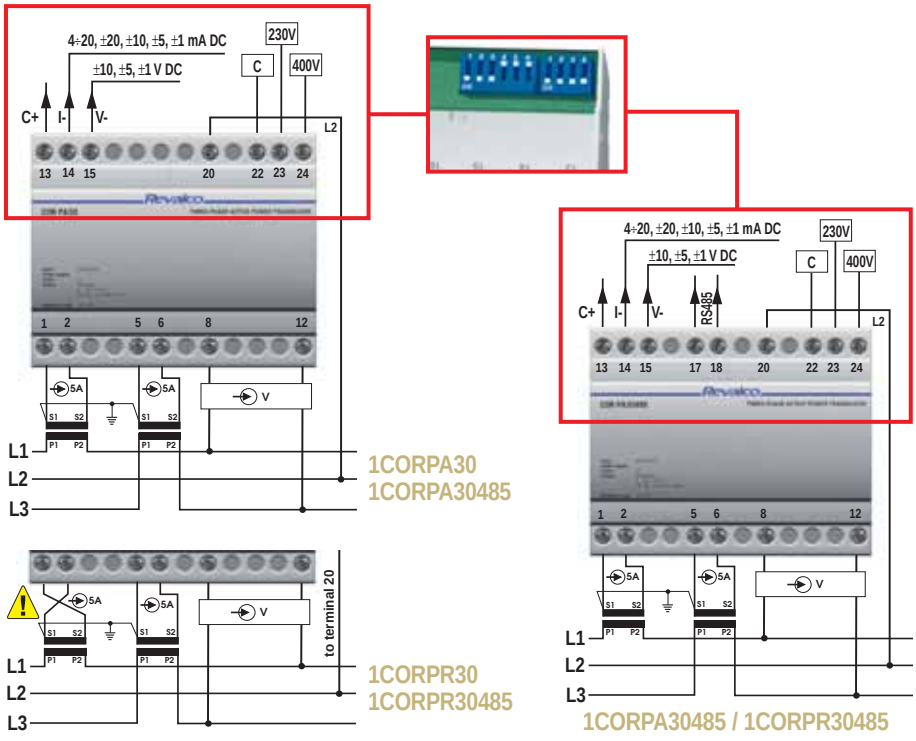
- **SELECTABLE BIDIRECTIONAL OUTPUTS** — OS - OSD (schemes D10, D2)
- **SELECTABLE BIDIRECTIONAL OUTPUTS WITH SERIAL OUTPUT RS485** — ±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mADC
- **MODBUS SLAVE RTU PROTOCOL**
- **INPUT WAVE FORM** — 230V / 400V AC standard
- **NOMINAL OUTPUT VALUES (selectable)** — voltage: 400V standard - current: 5A (1A on request)
- **AUXILIARY SUPPLY (separate)** — 700Ω max / 0 ÷ Pn (0 ÷ Qn)
- **NOMINAL INPUT VALUES** — 100V,5A=1000W (var) 230V,5A=2000W (var) 400V,5A=4000W (var)
- **RESISTIVE LOAD / MEASURING RANGE** — 0,5 / 50 - 60 Hz
- **STANDARD CALIBRATION** — **Permanent:** 2 In / 1,2 Un **Instantaneous:** 10 In / 2 Un for 1 sec.
- **ACCURACY CLASS / OPERATING FREQUENCY** — ≤ 300 ms / ≤ 1%
- **OVERLOAD** — voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA
- **RESPONSE TIME / ALTERNATED RESIDUAL** — insulation between inputs, outputs, power supply 2kV for 1min at 50Hz
- **BURDEN** — insulation between the all circuits and earth 4kV for 1min at 50Hz
- **GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS**
- **OPERATING TEMPERATURE / DIMENSIONS / WEIGHT Kg.** — 0 °C ÷ +55 °C / 6 DIN modules / 0,50

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

1CORPA30 / 1CORPR30 - 1CORPA30485 / 1CORPR30485

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 AND REACTIVE TRANSDUCERS BALANCED LOAD, 4 WIRES WITH NEUTRAL

1CORPA4 / 1CORPR4 - 1CORPA40 / 1CORPR40 - 1CORPA40485 / 1CORPR40485

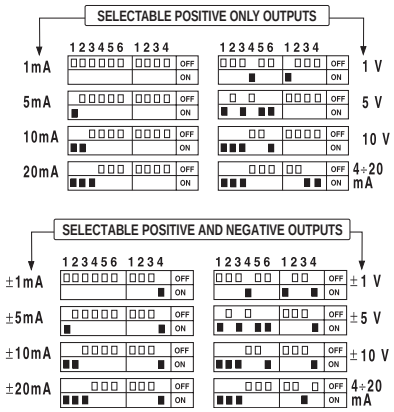
These transducers have the galvanic separation between inputs and outputs, and have the capability to offer multiple choice auxiliary supply of (230V, 400V) by terminal selection and 8 Outputs (1-5-10 VDC and 1-5-10-20-4/20 mA DC), by minidip key located under a removable section of the upper case wall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

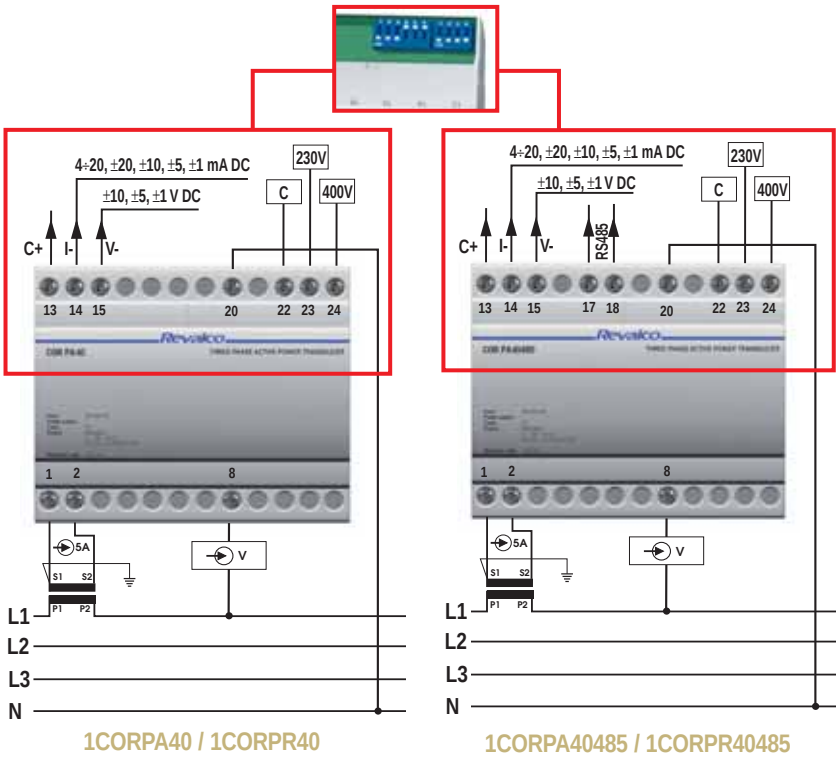
	1CORPA40 1CORPR40	1CORPA40485 1CORPR40485
Active Power **Reactive Power**	• •	• • •
- **SELECTABLE BIDIRECTIONAL OUTPUTS**	OS - OSD (schemes D10, D2)	
- **SELECTABLE BIDIRECTIONAL OUTPUTS WITH SERIAL OUTPUT RS485**	±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mADC	
- **MODBUS SLAVE RTU PROTOCOL**	230V / 400V AC standard	
- **INPUT WAVE FORM**	voltage: 400V standard - current: 5A (1A on request)	
- **NOMINAL OUTPUT VALUES (selectable)**	700Ω max / 0 ÷ Pn (0 ÷ Qn)	
- **AUXILIARY SUPPLY (separate)**	100V,5A=1000W (var) 230V,5A=2000W (var) 400V,5A=4000W (var)	
- **NOMINAL INPUT VALUES**	0,5 / 50 - 60 Hz	
- **RESISTIVE LOAD / MEASURING RANGE**	**Permanent:** 2 In / 1,2 Un **Instantaneous:** 10 In / 2 Un for 1 sec.	
- **STANDARD CALIBRATION**	≤ 300 ms / ≤ 1%	
- **ACCURACY CLASS / OPERATING FREQUENCY**	voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA	
- **OVERLOAD**	insulation between inputs, outputs, power supply 2kV for 1min at 50Hz	
- **RESPONSE TIME / ALTERNATED RESIDUAL**	insulation between the all circuits and earth 4kV for 1min at 50Hz	
- **BURDEN**	0 °C ÷ +55 °C / 6 DIN modules / 0,50	
- **GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS**		
- **OPERATING TEMPERATURE / DIMENSIONS / WEIGHT Kg.**		

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

1CORPA40 / 1CORPR40 - 1CORPA40485 / 1CORPR40485

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





1CORPA40 / 1CORPR40 1CORPA40485 / 1CORPR40485

THREE PHASE ACTIVE AND REACTIVE TRANSDUCERS UNBALANCED LOAD, 4 WIRES WITH NEUTRAL

1CORPA50 / 1CORPR50 - 1CORPA50485 / 1CORPR50485 - 1CORPAC50485 / 1CORPRC50485

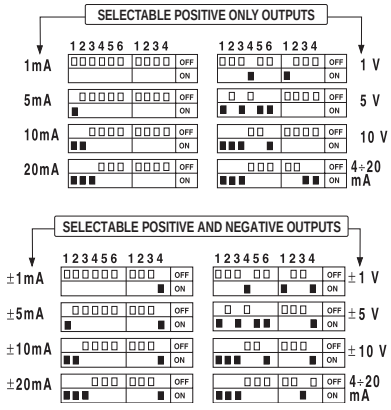
These transducers have the galvanic separation between inputs and outputs, and have the capability to offer multiple choice auxiliary supply of (230V, 400V) by terminal selection and 8 Outputs (1-5-10 VDC and 1-5-10-20-4/20 mA DC), by minidip key located under a removable section of the upper case wall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

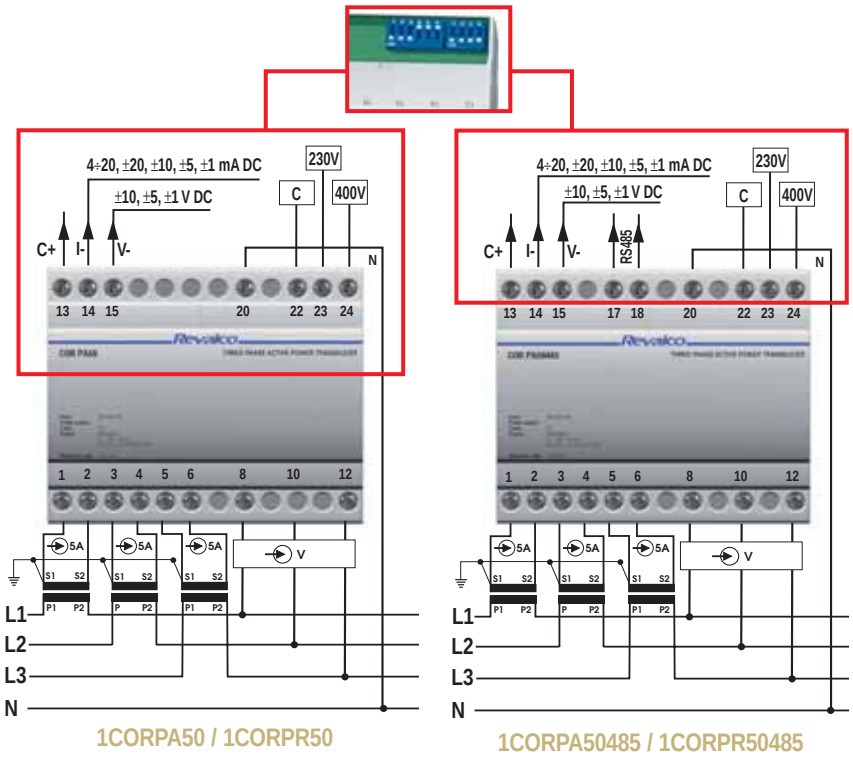
	1CORPA50 1CORPR50	1CORPA50485 1CORPR50485
Active Power **Reactive Power**	• •	• •
- **SELECTABLE BIDIRECTIONAL OUTPUTS**	•	•
- **SELECTABLE BIDIRECTIONAL OUTPUTS WITH SERIAL OUTPUT RS485**		•
- **MODBUS SLAVE RTU PROTOCOL**		•
- **INPUT WAVE FORM**	OS - OSD (schemes D10, D2)	
- **NOMINAL OUTPUT VALUES (selectable)**	±1, ±5, ±10 VDC and ±1, ±5, ±10, ±20, 4/20 mADC	
- **AUXILIARY SUPPLY (separate)**	230V / 400V AC standard	
- **NOMINAL INPUT VALUES**	voltage: 400V standard - current: 5A (1A on request)	
- **RESISTIVE LOAD / MEASURING RANGE**	700Ω max / 0 ÷ Pn (0 ÷ Qn)	
- **STANDARD CALIBRATION**	100V,5A=1000W (var) 230V,5A=2000W (var) 400V,5A=4000W (var)	
- **ACCURACY CLASS / OPERATING FREQUENCY**	0,5 / 50 - 60 Hz	
- **OVERLOAD**	**Permanent:** 2 In / 1,2 Un **Instantaneous:** 10 In / 2 Un for 1 sec.	
- **RESPONSE TIME / ALTERNATED RESIDUAL**	≤ 300 ms / ≤ 1%	
- **BURDEN**	voltage circuit ≤ 1VA current circuit ≤ 0,8VA power supply ≤ 4VA	
- **GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS**	insulation between inputs, outputs, power supply 2kV for 1min at 50Hz insulation between the all circuits and earth 4kV for 1min at 50Hz	
- **OPERATING TEMPERATURE / DIMENSIONS / WEIGHT Kg.**	0 °C ÷ +55 °C / 6 DIN modules / 0,50	

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

1CORPA50 / 1CORPR50 - 1CORPA50485 / 1CORPR50485

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





1CORPA50 / 1CORPR50 1CORPA50485 / 1CORPR50485

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