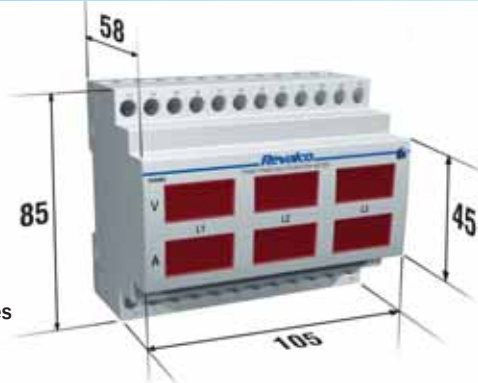


MULTIFUNCTION METERS



DIMENSIONS in mm



- The 105 mm dimensions correspond to 6 DIN modules (17.5 mm each)

TECHNICAL CHARACTERISTICS

	1RANM6	1RANM6R	1RANM6C	1RANM6CS	1RANM6C485	1RANM6CS485	1RANM6C232
ELECTRICAL PARAMETERS							
- Voltage phase-phase	•	•	•	•	•	•	•
- Voltage phase-neutral	•	•	•	•	•	•	•
- Current	•	•	•	•	•	•	•
- Total Active Power			•	•	•	•	•
- Total Reactive Power			•	•	•	•	•
- Total Apparent Power			•	•	•	•	•
- Total Active Energy			•	•	•	•	•
- Partial Active Energy			•	•	•	•	•
- Total Reactive Energy			•	•	•	•	•
- Power Factor			•	•	•	•	•
- Frequency			•	•	•	•	•
- Phase sequence			•	•	•	•	•
- Partial and Total working hours			•	•	•	•	•
Possibility to use the output contacts by software (for example: turn-on or turn-off an engine)							
The software is available, free of charge, on our internet address www.revalco.it							
STANDARD POWER SUPPLY					230 VAC 50/60Hz		
NOMINAL INPUT VALUES					500V		
Voltage					from 5A to 6000A selectable by button located at the front		
Primary current					5A (1A on request)		
Secondary current					from 40 to 60 Hz		
Frequency					from 5A to 1000A with steps of 5A – from 1000A to 6000A with steps of 50A		
					2% ± 2 digit (Power and Energy) 0,5% ± 2 digit (all other values)		
SELECTABLE CAPACITIES					4VA		
PRECISION CLASS					IP20		
CONSUMPTION					II		
FRONT PROTECTION DEGREE					-5°C +50°C		
INSULATION CLASS					-20°C +70°C		
WORKING TEMPERATURE					2kV at 50Hz for 1 minute		
STORAGE TEMPERATURE					EEPROM		
TEST VOLTAGE							
MEMORY							
TWO OUTPUT REED RELAYS with high power (max 20VA), switching voltage (1000VDC) or peak AC		NO (0,5A-1000V)		NO (0,5A-1000V)		NO (0,5A-1000V)	
SERIAL OUTPUT					RS485		RS232
PROTOCOL					MODBUS SLAVE RTU		MODBUS SLAVE RTU
							ASCI on request
INSULATION VOLTAGE						3kV	
WEIGHT Kg					0,50		

1RANM6

OPERATION

- Powering the instrument you can see the following page



Main fault

- By pressing the front button, the introduction page of this analyser appears, on which the actual version is also identified.



In this position, the configuration selection menu page will appear (see at the bottom of this page)
To enter into the configuration menu maintain pressure on the front button for a few seconds

- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown



three voltages phase/phase

three currents

- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown



three voltages phase/neutral

three currents

CONFIGURATION SELECTION MENU

- By pressing the front button for a few seconds a flashing page appears, indicating that you are entering into the configuration selection menu, and you will see for example:

Maintain pressure on the front button until the following page is displayed.
Releasing the button the further pages will be **automatically** shown



- After a few seconds the CT selection page appears, by pressing the front button you can select the required CT value. From 5A up to 999A with steps of 5A



From 1000A up to 6000A with steps of 50A for their display it is necessary to refer in kA values where this unit measurement is indicated by the illumination of the light located on the extreme right of the display. To fast forward maintain pressure on the front button



The example shows the displays of a 1200A CT

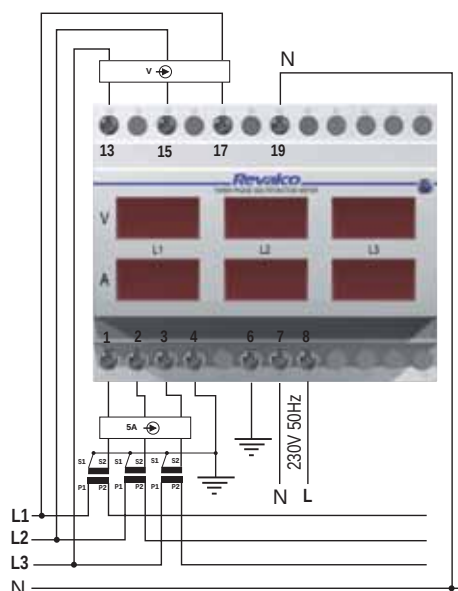
- After a few seconds the page of the mathematical medium n° of samples appears; practically it is the stability filter of the measurement. The numbering goes from 1 to 60; the higher is the selected number the slower is the change of displays.



- Automatically the following page appears: here it is possible to select and memorise the main page that you want to see after the initial energising of the instrument. By pressing in succession the front button, the various titles of the pages available appear and when you see the one required release the button to memorise it.
After 5 seconds the next page appears.



CONNECTION DIAGRAM



1RANM6R

OPERATION

- Powering the instrument you can see the following page



Main fault

- By pressing the front button, the introduction page of this analyser appears, on which the actual version is also identified.



In this position, the configuration selection menu page will appear (see at the bottom of this page)
To enter into the configuration menu maintain pressure on the front button for a few seconds

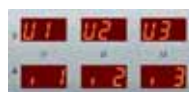
- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown



three voltages phase/phase

three currents

- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown

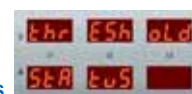


three voltages phase/neutral

three currents

- Maintaining pressure on the front button you will see the parameters displayed on this page

Releasing the button ,the activation(ON) or the deactivation(OFF) of the two thresholds (th1 and th2) appears



Showing the actual situation of the thresholds

CONFIGURATION SELECTION MENU

- By pressing the front button for a few seconds a flashing page appears, indicating that you are entering into the configuration selection menu, and you will see for example:

Maintain pressure on the front button until the following page is displayed.
Releasing the button further pages will be automatically shown



- After a few seconds the CT selection page appears, by pressing the front button you can select the required CT value. From 5A up to 999A with steps of 5A



From 1000A up to 6000A with steps of 50A for their display it is necessary to refer in kA values where this unit measurement is indicated by the illumination of the light located on the extreme right of the display . To fast forward maintain pressure on the front button

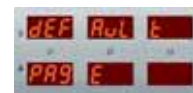


The example shows the displays of a 1200A CT

- After a few seconds the page of the mathematical medium n° of samples appears; practically it is the stability filter of the measurement. The numbering goes from 1 to 60; the higher is the selected number the slower is the change of displays.



- Automatically the following page appears: here it is possible to select and memorise the main page that you want to see after the initial energising of the instrument. By pressing in succession the front button, the various titles of the pages available appear and when you see the one required release the button to memorise it.
After 5 seconds the next page appears.



1st alarm threshold configuration page

When pressing the front button it is possible to choose between:

OFF,
Hi (max alarm),
Lo (min alarm)



- On the further page it is possible to select the delay time of the 1st threshold

When pressing the front button it is possible to choose between:

OFF - On (excitation relay delay) or
On - OFF (disexcitation relay delay)



- On the further page it is possible to select the delay time up to max 30 seconds



On the further page it is possible to select the parameter to which applies the 1st alarm threshold between:



- 3U** alarm applied simultaneously to the three phase-neutral voltages, where is enough that one of the three voltages exceeds the selected value to activate the alarm
- 3UF** alarm applied simultaneously to the three phase-phase voltages, where is enough that one of the three voltages exceeds the selected value to activate the alarm
- 3i** alarm applied simultaneously to the three currents, where is enough that one of the three currents exceeds the selected value to activate the alarm
- i1** alarm applied to the L1 current phase **i2** alarm applied to the L2 current phase **i3** alarm applied to the L3 current phase
- U1** alarm applied to the L1 phase-neutral voltage phase **U2** alarm applied to the L2 phase-neutral voltage phase **U3** alarm applied to the L3 phase-neutral voltage phase
- U12** alarm applied to the L1-L2 voltage phase **U23** alarm applied to the L2-L3 voltage phase **U31** alarm applied to the L3-L1 voltage phase

The further page shows also the percentage value of the alarm. It is possible to modify the percentage value of the alarm; by pressing the front button the percentage is varied with steps of 1% (to fast forward maintain pressure on the front button) and displayed on the page is the equality between the numerical value and the percentage.



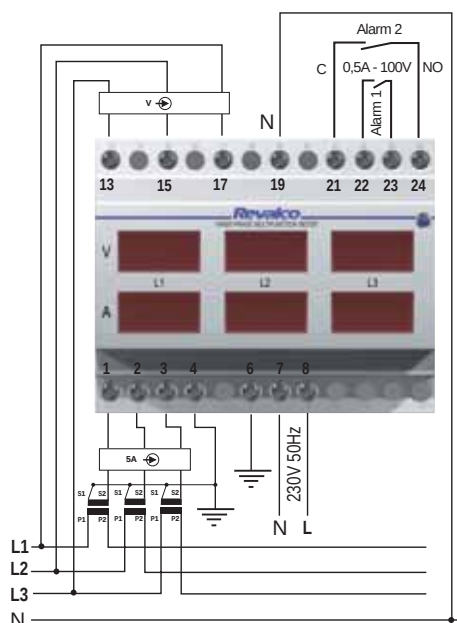
Example: having choosen the parameter 3UF, the percentage 51% correspond to 255V

Now the 2nd alarm threshold configuration page appears

Where it is necessary to act exactly as explained above



CONNECTION DIAGRAM



1RANM6C / 1RANM6C485 / 1RANM6C232

OPERATION

- Powering the instrument you can see the following page

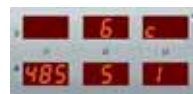


Main fault

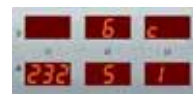
- By pressing the front button, the introduction page of this analyser appears on which the actual version is also identified.



or



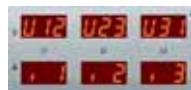
or



In this position, the configuration selection menu page will appear (see at the bottom of this page)

To enter into the configuration menu maintain pressure on the front button for a few seconds

- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown



three voltages phase/phase

three currents

- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown



three voltages phase/neutral

three currents

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Active Power, expressed in Watt

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Reactive Power expressed in Var

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Apparent Power, expressed in VA

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Active Energy expressed in kWh

- Maintaining pressure on the front button you will see the parameter displayed on this page showing the quantity of energy used in 15 min
Releasing the button the measurement will be shown



Relative Active Energy, expressed in kWh, memorised every 15 min.



The flashing symbol means that the instrument is counting the used energy during 15 minutes; when the symbol becomes static it means that the 15 minutes are passed and the final value is shown. To zero this value, maintain pressure on the front button.

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Reactive Energy expressed in kVar

- Maintaining pressure on the front button you will see the parameters displayed on this page Capacitive (CAP) or Inductive Power Factor (Ind) in number (Cos) or in electrical degrees (deg) Frequency from 30Hz to 70Hz (FrE)



Releasing the button the measurement will be shown

- Maintaining pressure on the front button you will see the parameters displayed on this page



Phase sequence

Releasing the button this indication appears (not correct sequence) or (correct sequence)

- Maintaining pressure on the front button you will see the parameter displayed on this page Hourmeter indicating the working hours of the instrument, the memorising of the time occurs every 15 min
Releasing the button the measurement will be shown



- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Partial hourmeter indicating the working hours of the instrument

(zeroing in the next page)



- Maintaining pressure on the front button you will see the parameters displayed on this page:

Releasing the button the measurement will be shown



Actual analogue bar of the Active Power respect to the Total Apparent Power

Actual analogue bar of the Reactive Power respect to the Total Apparent Power

This page serves to give an immediate visual display showing the situation of the installation
Releasing the button you can see for example at $\cos\varphi=1$ the following display:



Active Power

Reactive Power

If the value of the cosphi goes down, the phase displacement angle is immediately displayed, and the Active Power's bar goes down while the Reactive Power's bar will increase as for example in the figure:



Active Power

Reactive Power



- Maintaining pressure on the front button you see the parameter displayed on this page
Visual simulation of the rotation of the electromechanical active kWh-meter indicating how much energy you are using at that time
Releasing the button the graphics will be shown

- Maintaining pressure on the front button you see the parameter displayed on this page
Releasing the button the graphics will be shown

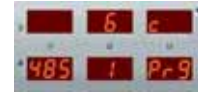


Analogue display bar of the Active Power (settable)

If for example the selected CT is 50/5A but it is well known that the installation is already at 100% with 40A, You'll set the instrument in the way that with 40A the bar shows 100%

CONFIGURATION SELECTION MENU

- By pressing the front button for few seconds a flashing page appears, indicating that you are entering into the configuration selection menu, and you will see for example:



Maintain pressure on the front button until the following page is displayed.
Releasing the button the further pages will be **automatically** shown



- After a few seconds the CT selection page appears, by pressing the front button you can select the required CT value.
From 5A up to 999A with steps of 5A



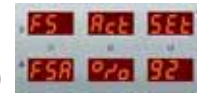
From 1000A up to 6000A with steps of 50A and for their display it is necessary to refer in kA values where this unit measurement is indicated by the illumination of the light located on the extreme right of the display. To fast forward maintain pressure on the front button
The example shows the displays of a 1200A CT



- After a few seconds the page of the mathematical medium n° of samples appears; practically it is the stability filter of the measurement. The numbering goes from 1 to 60; the higher is the selected number the slower is the change of displays.



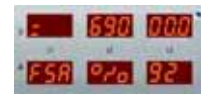
- After a few seconds the following page appears, on which it is possible to select the end scale value of the analogue bar of the Active Power (Act Ratio). The indicated example shows a value of 92% that can be modified (with steps of 1%) by pressing the front button (To fast forward maintain pressure on the front button)



Releasing the button the page will show also the numerical equality in Watt of the percentage choosen
In function of the nominal calibration data. If for example the CT 50/5A is selected and the percentage is 92% you'll see:
where 6900W correspond to the end scale (92%)

calculated as follow: $92\% = \frac{V_{nom}}{230V \text{ ph/n}} \times \frac{CT \text{ value}}{50/5A} \times 3$
(400V ph/ph)

$$230 \times 50 = 11500 \quad 11.500 : 5 = 2300 \quad 2300 \times 3 = 6900$$



- Automatically the following page appears: here it is possible to select and memorise the main page that you want to see after the initial energising of the instrument. By pressing in succession the front button, the various titles of the pages available appear and when you see the one required release the button to memorise it.



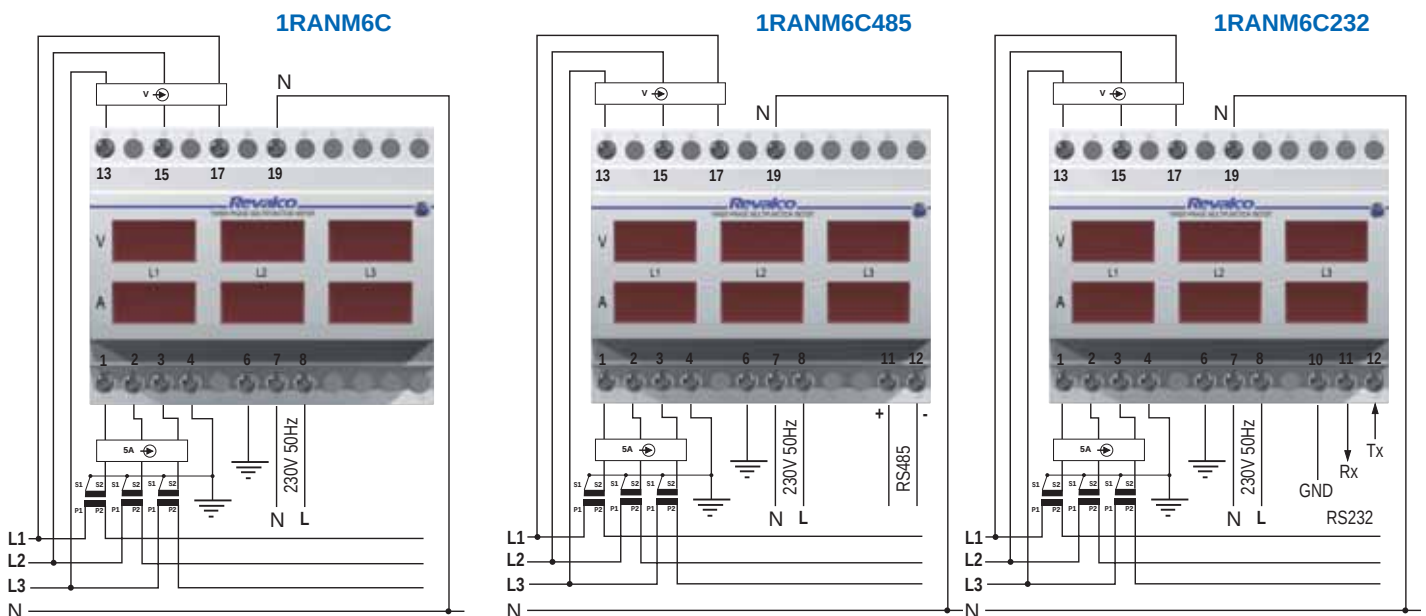
- After 5 seconds the next page appears(version 1RANM6C485 only)
on which, by pressing the front button, it is possible to change the address to assign)



serial address

CONNECTION DIAGRAMS

- Serial communication, see page 50



1RANM6CS / 1RANM6CS485

OPERATION

- Powering the instrument you can see the following page



Main fault

- By pressing the front button, the introduction page of this analyser appears, on which the actual version is also identified.



or



In this position, the configuration selection menu page will appear (see at the bottom of this page)
To enter into the configuration menu maintain pressure on the front button for a few seconds

- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown



three voltages phase/phase

three currents

- Maintaining pressure on the front button you will see the parameters displayed on this page
Releasing the button the measurements will be shown



three voltages phase/neutral

three currents

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Active Power,
expressed in Watt

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Reactive Power
expressed in Var

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Apparent Power,
expressed in VA

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Active Energy
expressed in kWh

- Maintaining pressure on the front button you will see the parameter displayed on this page showing the quantity of energy used in 15 min
Releasing the button the measurement will be shown



Relative Active Energy
expressed in kWh
memorised every 15 min.



The flashing symbol means that the instrument is counting the used energy during 15 minutes; when the symbol becomes static it means that the 15 minutes are passed and the final value is shown. To zero this value, maintain pressure on the front button.

- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown



Total Reactive Energy
expressed in kVar,

- Maintaining pressure on the front button you will see the parameters displayed on this page
Capacitive (CAP) or Inductive Power Factor (Ind) in number (Cos), or in electrical degrees (deg)
Frequency from 30Hz to 70Hz (Frf)
Releasing the button the measurement will be shown



- Maintaining pressure on the front button you will see the parameter displayed on this page



Phase sequence

Releasing the button this indication appears : (not correct sequence)
or (correct sequence)

- Maintaining pressure on the front button you will see the parameter displayed on this page
Hourmeter indicating the working hours of the instrument, the memorising of the time occurs every 15 min
Releasing the button the measurement will be shown



- Maintaining pressure on the front button you will see the parameter displayed on this page
Releasing the button the measurement will be shown

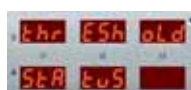


Partial hourmeter indicating the working
hours of the instrument

(zeroing in the next page)



- Maintaining pressure on the front button you will see the parameter displayed on this page



Actual situation of the thresholds

Releasing the button, the activation (ON) or the deactivation (OFF) of the two thresholds (th1 and th2) appears showing

- Maintaining pressure on the front button you see the parameters displayed in this page
Releasing the button the measurement will be shown



Actual analogue bar of the Active Power respect to the Total Apparent Power

Actual analogue bar of the Reactive Power respect to the Total Apparent Power

This page serves to give an immediate visual situation of the installation
Releasing the button you can see for example at $\cos\phi=1$ the following display



Active Power

Reactive Power

If the value of the $\cos\phi$ goes down, the phase displacement angle is immediately displayed, and the Active Power's bar goes down while the Reactive Power's bar will increase as for example in the figure:



Active Power

Reactive Power

- Maintaining pressure on the front button you see the parameter displayed on this page
Visual simulation of the rotation of the electromechanical active kWh-meter indicating how much energy you are using at that time
Releasing the button the graphics will be shown



- Maintaining pressure on the front button you see the parameter displayed on this page
Releasing the button the graphics will be shown



Analogue display bar of the Active Power (settable)

If for example the selected CT is 50/5A but it is well known that the installation is already at 100% with 40A, You'll set the instrument in the way that with 40A the bar shows 100%

CONFIGURATION SELECTION MENU

- By pressing the front button for a few seconds a flashing page appears, indicating that you are entering into the configuration selection menu, and you will see for example:



or



Maintain pressure on the front button until the following page is displayed.
Releasing the button the further pages will be **automatically** shown

- After a few seconds the CT selection page appears, by pressing the front button you can select the required CT value. From 5A up to 999A with steps of 5A



From 1000A up to 6000A with steps of 50A and for their display it is necessary to refer in kA values where this unit measurement is indicated by the illumination of the light located on the extreme right of the display. To fast forward maintain pressure on the front button



The example shows the display of a 1200A CT

- After a few seconds the page of the mathematically medium n° of samples appears; practically it is the stability filter of the measurement. The numbering goes from 1 to 60; the higher is the selected number the slower is the change of displays.



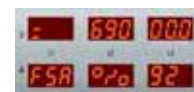
- After a few seconds the following page appears, on which it is possible to select the end scale value of the analogue bar of the Active Power (Act Ratio). The indicated example shows a value of 92% that can be modified (with steps of 1%) by pressing the front button
(To fast forward maintain pressure on the front button).



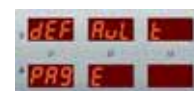
Releasing the button the page will show also the numerical equality in Watt of the percentage chosen
In function of the nominal calibration data. If for example the CT 50/5A is selected and the percentage is 92% you'll see:
where 6900W correspond to the end scale (92%)

Calculated as follow: $92\% = \frac{V_{nom}}{230V \text{ ph/n}} \times \frac{CT \text{ value}}{50/5A} \times 3$

$$230 \times 50 = 11500 \quad 11.500 : 5 = 2300 \quad 2300 \times 3 = 6900$$



- Automatically the following page appears: here it is possible to select and memorise the main page that you want to see after the initial energising of the instrument. By pressing in succession the front button, the various titles of the pages available appear and when you see the one required release the button to memorise it.



- After 5 seconds the next page appears. (version 1RANM6CS485 only)
on which, by pressing the front button, it is possible to change the address to assign



serial address

1st alarm threshold configuration page

Where pressing the front button it is possible to choose between:

OFF
Hi (max alarm),
Lo (min alarm)



- On the further page it is possible to select the delay time of the 1st threshold

Where pressing the front button it is possible to choose between: OFF - On (excitation relay delay) or On - OFF (disexcitation relay delay)



- On the further page it is possible to select the delay time up to max 30 seconds



On the further page it is possible to select the parameter to which apply the **1st** alarm threshold between:



- 3U** alarm applied simultaneously to the three phase-neutral voltages, where is enough that one of the three voltages exceeds the selected value to activate the alarm
- 3UF** alarm applied simultaneously to the three phase-phase voltages, where is enough that one of the three voltages exceeds the selected value to activate the alarm
- 3i** alarm applied simultaneously to the three currents, where is enough that one of the three currents exceeds the selected value to activate the alarm
- i1** alarm applied to the L1 current phase
- i2** alarm applied to the L2 current phase
- i3** alarm applied to the L3 current phase
- U1** alarm applied to the L1 phase-neutral voltage phase
- U2** alarm applied to the L2 phase-neutral voltage phase
- U3** alarm applied to the L3 phase-neutral voltage phase
- Act** alarm applied to the Active Power
- rEA** alarm applied to the Reactive Power
- APP** alarm applied to the Apparent Power
- U12** alarm applied to the L1-L2 voltage phase
- U23** alarm applied to the L2-L3 voltage phase
- U31** alarm applied to the L3-L1 voltage phase
- FrE** alarm applied to the frequency
- deg** alarm applied to the electrical degrees of the Power factor
- CoS** alarm applied to the COSphi of the Power Factor

The further page shows also the percentage value of the alarm. It is possible to modify the percentage value of the alarm; by pressing the front button the percentage is varied with steps of 1% (to fast forward maintain pressure on the front button) and displayed on the page is the equality between the numerical value and the percentage. Example: having choosen the parameter 3UF, the percentage 51% correspond to 255V



Now the **2nd alarm threshold configuration page** appears



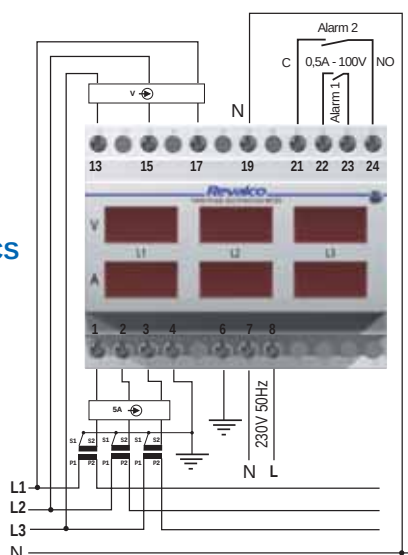
Where it is necessary to act exactly as explained before



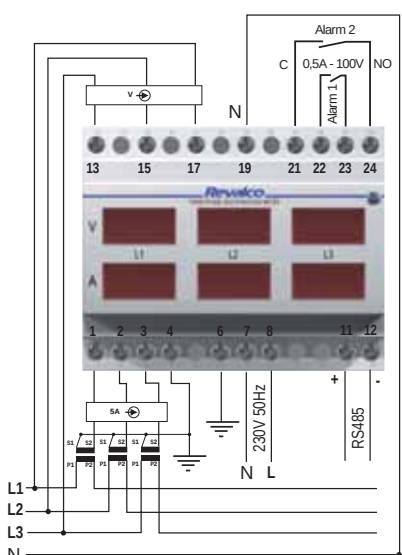
If in the configuration phase you decide **NOT** to use one or both threshold, these will remain available to be controlled via MODBUS SLAVE RTU, by the controll software.

CONNECTION DIAGRAMS

1RANM6CS

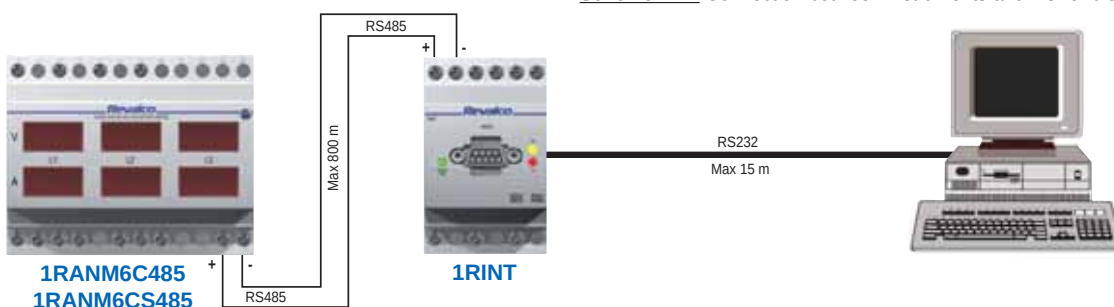


1RANM6CS485

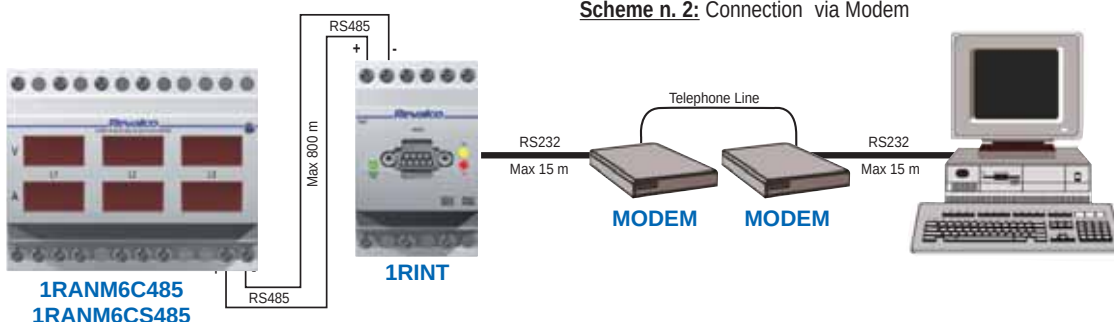


SERIAL COMMUNICATION

Scheme n. 1: Connection between instruments and PC for distances up to 800m



Scheme n. 2: Connection via Modem



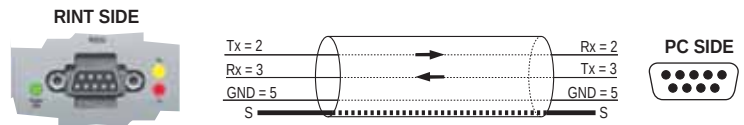
COMPUTER INTERFACE 1RINT



TECHNICAL CHARACTERISTICS

1RINT is an interface for use with personal computers compatible with IBM AT via a serial cable RS232 CANNON DB9 with the following characteristics:

- PC Entry, female connectors, nine pin
- Interface Entry, male connectors, nine pin
- In cases of Line Disturbance, connect the "S" wire (contained in the cable) to ground, on one side.



This converter can work with either 422 or 485 which are selectable by means of a switch located in the upper part of the device (under the slide)



When the interface is powered, the working green led lights (Power ON), while during the communication, the yellow led lights (Rx) for the input signal and the red led lights (Tx) for the output signal.

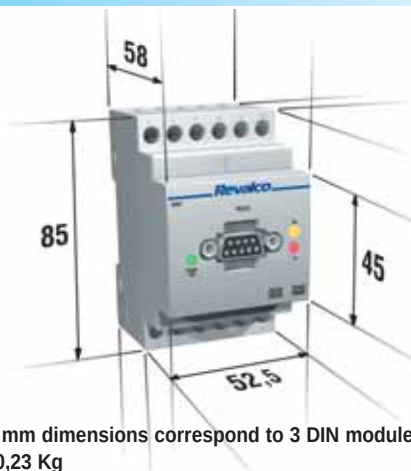
The speed of the serial communication is selfconfigured, between 1200 baud and 19200 baud.

It adapts to the speed of the instrument to which the converter is connected.

- TEST VOLTAGE 2 kV a 50Hz for 1 minute
- POWER SUPPLY 230V +/- 10% 50/60Hz
- WORKING TEMPERATURE -5°C...+ 50°C
- STORAGE TEMPERATURE - 20°C...+ 80°C
- PROTECTION DEGREE IP 20

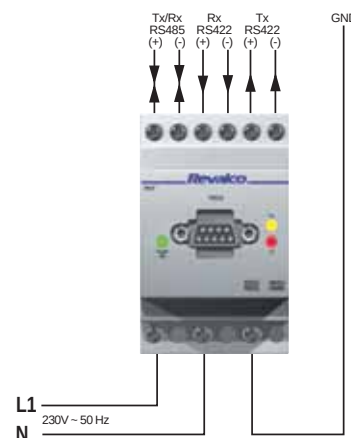
- CONSUMPTION 3VA
- BIDIRETIONAL SERIAL COMMUNICATION selectable between RS 232 / RS 422 and RS 232 / 485
- DIMENSIONS 3 rail DIN modules

DIMENSIONS in mm



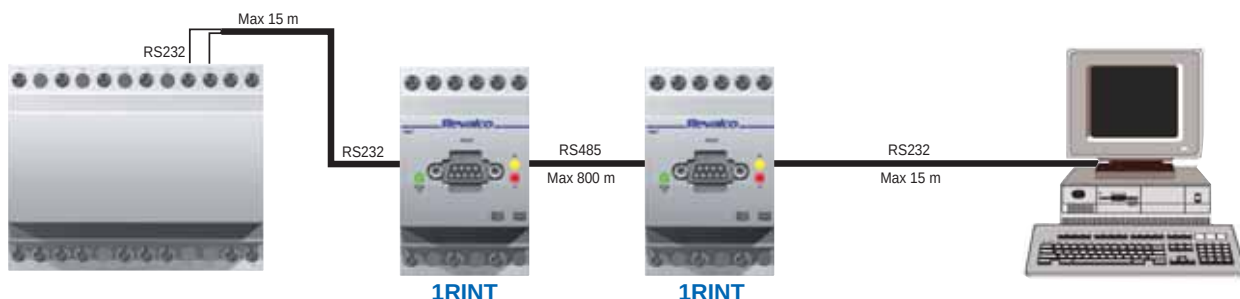
- The 52,5 mm dimensions correspond to 3 DIN modules (17,5 mm each)
- Weight: 0,23 Kg

CONNECTION DIAGRAM



SERIAL COMMUNICATION

- Example of application: connection for distances more than 15 meters



MEMORY INTERFACE 1REPRO



GENERAL DESCRIPTION

1REPRO is an interface with memory to connect between the multifunction meters and a PC through a serial cable RS232 CANNON DB9 female for the analysis of the memorised parameters. 1REPRO will memorise all the parameters measured by the 1RANM6 series up to 2000 memory blocks by a programmable scanning times of from 1 second to 24 hours. By use of a switch positioned under the slide on the top of the case, it is possible to stop the memorisation up to 2000 blocks or allow overwriting new blocks of data.

Included is the possibility of remote command START / STOP MEMORY.

Through a PC program on 1REPRO the memorisation time and other required options can, after first removing the 1REPRO from the multimeters and connect to the PC, enable all of the required information to be read from a monitor.

TECHNICAL CHARACTERISTICS

- AUXILIARY POWER SUPPLY
- SIGNALLING LEDES

230VAC +/- 10% (galvanically insulated)

POWER ON = green led light-on

STOP = red led light-on (memory full)

MEMO = fixed red led light-on (programming by PC)

= flashing red led (memo phase)

- REMOTE START/STOP COMMAND
- SERIAL COMMUNICATION

by NC contact: NC = START ; NO = STOP

19200 - 9600 - 4800 - 2400, 8, n, 1 baud (not insulated) on terminals 10-11-12

115200 baud on serial cable RS232 DB9 female

with back-up

EEPROM 1Mbit I2C Bus (expandable to 4 MBit - from 2048 to 8192 recorders 64 bytes)

1,5 - 2 W

working temperature: from -10°C to + 55°C (UR < 90%)

storage temperature : from - 40°C to + 70°C (UR < 90%)

II

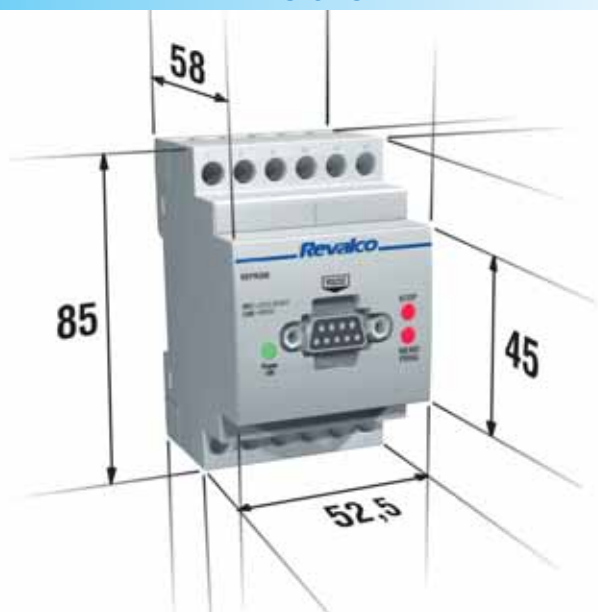
IP 20

3 modules DIN

- INTERNAL CLOCK
- MEMORY
- BURDEN
- TEMPERATURES

- INSULATION CLASS
- PROTECTION CLASS
- DIMENSIONS

DIMENSIONS in mm



- The 52,5 mm dimensions correspond to 3 DIN modules (17,5 mm each)
- Weight: 0,23 Kg

CONNECTION DIAGRAM

