INSTRUCTION MANUAL

IM452-U v0.9

EMM-4hp-ETH ELECTRICAL MULTIFUNCTION METER

GENERALITY

These digital multimeters allow to monitor all the electrical parameters present on a distribution line. The local display of 30 electrical parameters is carried out by 4 display with red LED guaranteeing a good and contemporary reading of more measures. A simple front panel completes the intuitive selection of several electrical parameters, with a great quantity of information. These instruments, over of the instantaneous measures, display the maximum peak of the main parameters (maximum peak and maximum demand). The presence of the Ethernet port communication allows the connection in network of more instruments to realize centralized measure networks.

These multimeters replace in a unique device, all the functions of voltmeters, ammeters, energy meters, cosphimeters, wattmeters, varmeters, frequency meters permitting a great economic saving, a reduction of dimension and the wiring energy and a simplification in the purchase and management of the instruments because this is a model usable at all of need of local measure in the electrical panel, machine, etc.



AVAILABLE MODELS

-EMM-4hp-ETH basic version in execution for flush mounting DIN 96x96mm

ACCESSORIES AND OPTIONS

accessories: frontal protection transparent cover

options:

- internal CT's (not for direct line insertion) (order with -t suffix)
- current inputs for ... /1A current transformer (order with /1A suffix)
- current sensor for low current measures (Max 15 Amp) (specify when ordering)
- neutral current input (order with -n suffix)
- Digital input (order with –DI suffix)
- power supply and measuring voltages other than the standard (specify when ordering)

MEASURED PARAMETERS

parameters	unit of measurement		initial ide	ntificati	ion
phase and three phase voltages	[V-kV]	V _{L1-N}	V _{L2-N}	V l3-n	Σ V _{L-N}
phase to phase and three phase system voltages	[V-kV]		V _{L2-L3}	V _{L3-L1}	
phase and three phase currents	[A-kA]	A L1	A L2	A L3	ΣΑ
neutral current	[A-kA]	An			
phase and three phase power factors		PF L1	PF L2	PF L3	ΣPF
phase and three phase active powers	[W-kW-MW]	W L1	W L2	W L3	ΣW
phase and three phase system reactive powers	[VAr-kVAr-MVAr]	VAr _{L1}	VAr L2	VAr L3	ΣVAr
phase and three-phase system apparent powers	[VA-kVA-MVA]	VA L1	VA_{L2}	VA_{L3}	ΣVA
frequency	[Hz]	Hz L1			
temperature	[°C]	Т			
three phase system active energy	[kWh]	Σ kWh			
three phase system reactive energy	[kVArh]	Σ kVArh			
three phase system apparent energy	[kVAh]	Σ kVAh			
hour counter	[hr]	h			
average and peak values (maximums):					
maximum phase voltages	[V-kV]	V L1-N max	V L2-N ma	ах	V L3-N max
maximum phase currents	[A-kA]	A _{L1 max}	$A_{L2 max}$		A _{L3 max}
maximum neutral current	[A-kA]	A _{n max}			
maximum three-phase powers	[W-VAr-VA (k-M)]	ΣW_{max}	$\Sigma \text{VAr}_{\text{m}}$	ax	$\Sigma \text{ VA}_{\text{max}}$
maximum average phase currents (maximum demand)	[A-kA]	I L1 max (avg)	I L2 max (a	avg)	I L3 max (avg)
maximum average neutral current (maximum demand)	[A-kA]	An max (avg)			
maximum average three-phase powers (maximum demand)	[W-VAr-VA (k-M)]	ΣW max (avg)	$\Sigma \text{VAr}_{\text{m}}$	ax (avg)	$\Sigma \text{ VA}_{\text{max (avg)}}$
average phase currents	[A-kA]	A L1 avg	$A_{L2 avg}$		A _{L3 avg}
average neutral current	[A-kA]	A _{n avg}			
average three-phase powers	[W-VAr-VA (k-M)]	ΣW_{avg}	ΣVAr_{av}	vg	ΣVA_{avg}

INSTALLATION WARNING FOR THE USER

Read carefully the instructions/indications contained in this manual before installing and using the instrument.

The instrument described in this manual is intended for use by properly trained staff only.

SAFETY

This instrument has been manufactured and tested in compliance with EN 61010-1standards. In order to maintain these conditions and to ensure safe operation, the person must comply with the indications and markings contained in the manual. When the instrument is received, before beginning installation, check that it's O.K. And it has not suffered any damage during transport. When starting installation make sure that the operating voltage and mains voltage are compatible with the device instructions. The instrument power supply must not be earthed. Maintenance and/or repair must be carried out only by qualified and authorized personnel. If there is ever the suspicious that, that there is a lack of safety ,during operation, the instrument must be disconnected and cautions taken against accidental use.

<u>Operation is no longer safe when: - The instrument doesn't work. / - The measured value are obviously wrong or unreasonable / - There is clearly visible damage. / - After serious damage incurred during transport. / - After a storage under unfavourable conditions</u>

CONNECTION

For a correct use of the device, the wiring diagram contained in the present manual, must be respected.

The connections are the same for all models and are subdivided in three groups:

auxiliary power supply:

On the instrument are available 4 terminals to connect the auxiliary power supply to the instrument:

Terminals	Power Supply
1-2	0-110V = 100-125Vac 50-60Hz
1-3	0-230V = 220-240Vac 50-60Hz

It's possible, for example, to take the auxiliary power supply between phase and neutral, in a 4 wires system, or phasephase in a 3 wires system, without neutral or from a VT in a medium voltage application.

measure voltage inputs:

4 terminals are available for the connection to the 3 phase and neutral of the network of measure, the maximum voltage phase to phase shouldn't be over 500 V rms.

In case of a 3 phase system without neutral, or non distributed neutral to leave terminal N free.

- measure current inputs:

6 terminals are available for the connection to 3 external amperometric transformers with secondary 5A, it's possible to use 2 TA on lines with 3 wires (insertion three phase Aron). **The utilization of external TA is obligatory.**

With the neutral current input option installed, the multimeter allows the measure of the neutral current, using a current transformer /5A; the secondary must be connected to the In S1 and S2 terminals available on the rear of the instrument (see the wiring diagram).

REMARKS: It's a must to respect the phase sequence. The connections between current and voltage phase inputs must not be inverted (for example, CT placed on phase L1 must correspond to the I1 input). So as it is not correct to invert S1 and S2 terminals, since power factors and powers might not be reliable.

For fixing the flush mount version instrument to the panel, use the fixing devices supplied, by inserting them in the side groves of the enclosure and tighten the screws.

For safety reasons, place an external fuse protection at the input voltages, and use adequate cables for the working voltages and currents, with a cross sections from 0,5 to 2,5 mm².

WIRING DIAGRAMS



INSERTION ON THREE-PHASE LINE WITH 4 WIRES



N.B. on line with 3 wires (without neutral or with neutral not supplied) the N terminaln must not be connected.

INSERTION ON THREE PHASE LINE WITH 3 WIRES AND 2 CT (AARON insertion) (only for INSULATED CURRENT INPUTS option)



N.B. it's better, where possible, to use 3 CT (above all with unbalance loads)

INSERTION ON THREE-PHASE BALANCED WITH 3 OR 4 WIRES



N.B. on line with 3 wires (without neutral or with neutral not supplied) the N terminaln must not be connected.

INSERTION ON SINGLE PHASE



N.B. If the multimeters are used on single phase line, the measure are referred on the L1 phase. The others datadisplayed relatives at three phase system are not to consider.

Digital Input connection



it's better to put a fuse (50mA 250 V fast) on the digital input. The maximum current absorbed is 1 mA.



Digital Outputs: DO1 output if used as PULSE is linked to the ACTIVE ENERGY counter, DO2 output if used as PULSE is linked to the REACTIVE ENERGY counter. DO1 and DO2 can be used as ALARM and they can be linked to a measure.



Max 150mA Max 230Vac/dc

DESCRIPTION FRONT PANEL- OPERATORS



LEGEND:

- A: push-button for the visualization of electrical parameters of three-phase system with the corresponding LED indication. In modality programming (SETUP) it's used to confirm the parameter set.
- **B**: push-button for the selection of the electrical parameter to be displayed on display **F**. In modality programming (SETUP) it's used to increase the value of the parameters to set.
- C: push-button for the selection of the electrical parameter to be displayed on display **G**. In modality programming (SETUP) it's used to reduce the value of the parameters to set.
- **D**: LED bar for the indication of the electrical parameter displayed on display **F**.
- **E**: LED bar for the indication of the electrical parameter displayed on display **G**.
- F: 3 displays for the visualization of electrical measures of every phase. When ΣL LED is ON, only the main display will be active showing the three-phase system value of the electrical measure selected.

LED **k** and **M** show the eventual multiplying factor (k = kilo=x 1.000, M =Mega= x 1.000.000) Using the **C** key the display indicates also the values of the active and reactive energy counters. Using the **A** and **B** keys the display indicates the maximum and average values.

G: display for the visualization of the electrical measure indicated in LED E (energy counters excluded). The voltage values are referred to the three-phase system. The k LED displays the reading in kilo (x 1000). Using the C key the display indicates the type of the energy displayed. Using the A and B keys the displays indicate the type of the value: average or maximum.

A+C: when pressing simultaneously the instrument pass to the following menu:

- instrument programming (SETUP)
- energy counters and peak values deleting (RESET)
- digital outputs programming (SET DO1; SET DO 2)
- hour counter programming (HR_)
- I/O diagnostic page

A+B: when pressing simultaneously the instrument pass to the visualization of average and maximum values stored.

MENU OF INSTRUMENT PROGRAMMING (SETUP)

To enter in SETUP it's necessary to press at the same time **A** and **C** keys, on the **F** display will appear the message **SeTUp**. Pressing the **A** key on the **G** display will appear the message **SET** that will remain always displayed during the set of each parameter to highlight the setup phase in running.

The set values will be keep also in absence of auxiliary power supply.



Programming of the transformation ratio of the external current transformers (SET CT)

The programming of the CT ratio, intended as the ratio between the primary and the secondary circuit (example: with CT 1000/5 it must be set 200), has to be performed by using the front keys.

After the enter in the setup (message **SETUP** on **F** display) pressing the **C** key, the message **seT** will appear on the **G** display and the message **CT** (Current transformer ratio) on the first **F** display; the transformation ratio value (set to 1 by the manufacturer) on the second and the third **F** display. Press **B** or **C** keys to increase or decrease the value respectively (the variation is performed unit by unit). In order to speed up the operation, keep the **B** or **C** key pressed, the variation will be performed by tens and hundreds. To increase or decrease the value by unit, it is necessary to release and to press the button again. To confirm the set value, press the **A** button; in this way it is possible to enter the next programming. If none key is pressed for 10 seconds, the instrument will automatically leave the programming menu and the eventual setting SHALL NOT be stored.

Programming of the transformation ratio of the external voltage transformers (SET VT)

After the precedent programming phase, on **F** display will appear the inscription **Vt** (voltage transformer) and the value of the transformation rate of the external TV (set to 1 from the constructor), considered as the rate between primary and secondary (example with TV 15/0.1 kV the value will be 150). In the same way at the programming of the CT rate will be possible to set this value. If the external TV are not used the value to set will be 1. To confirm the value press the **A** button.

If the instrument has not options the programming continues with the set of average time **AVG T'** and after with the password **PASS**, then it come back at the first page **SETUP**. The presence or the absence of the options, neutral current, digital output and serial output, will allow the visualization or not of the other settings.

<u>Programming of the transformation ratio of the current transformer for the neutral current input (CTN) (version with neutral current input)</u>

This setting is active only for the models with this option installed; the message **SET** will appear on **G** display; the message **CTN** (Current transformer neutral ratio) and the set value on the **F** display. In the same way at the programming of the CT rate will be possible to set this value (example with CT 1000/5the value will be 200). Pressing the **A** key, confirm and go away with the next setting.

Programming of the average time (seT AVG T')

After the programming phase previously described, pressing another time the **A** key, on the **F** display will appear the message **AVG T**' and the average time settable from 1 to 30 minutes.

To increase the value press the **B** key. To decrease it, press the **C** key. To confirm it press the **A** key.

The average time is the time used to calculate the average parameters (**avg**) and the maximum demand (**maxD**).

Programming of the energy visualization type and the use of the digital input (seT EN)

This setting allows to define the energy visualization type after the visualization of the temperature.

With **TB1 TB2** will have the separated visualization of the two bands of the active, reactive, and apparent energy; the digital input will select the band (tb1 if opened, tb2 if closed). The **TB1 TB2** function is not present if the digital input option is not installed. With **TOT PAR** will have the visualization of the partial and total energy counters; the digital input is used (when it's closed) to reset the partial counters. With **NORMAL** there will be only the visualization of total counters (that it's possible to reset from **RESET** menu). The status of the digital input is always readable from serial.

Programming insertion mode (3PH)

In a unbalance three phase system it's necessary to set **UN_BAL** (unbalance) while in a balance system (only one CT and only one VT) the correct set is **BALANC** (balance). For a single phase insertion it's necessary to set **1PH L1**.

Programming wiring connection mode (MDE)

This setting allows to definite the wiring type connection. It's possible to chose 3 wires or 4 wires. With the 4 wires connection the neutral parameter are displayed and enabled to use for the digital outputs settings.

Programming of the synchronism type (SYN MDE)

In this setting for the synchronization type, it's possible to choose L1 to use the external frequency (on L1 phase) or 50, 60 Hz to use the internal clock.

Programming of the weight of the active and reactive energy pulse (seT PULSE)

After the above mentioned programming, by pressing the **A** key again, the message **PUIse** will appear on the **F** display and the value of the weight of one pulse settable on three phase values: 0,01 - 0,1 - 1 - 10 kWh or kVArh (for each emitted pulse the instrument will have counted 0,01 - 0,1 - 1 - 10 kWh o kVArh).

Press the \mathbf{B} key to increase the value or \mathbf{C} key to decrease the value and \mathbf{A} to confirm.

Programming of the duration pulse (SET TPL)

The message **TPL** will appear together the value of the duration pulse expressed in mS. It's possible to select the value from 100 mS to 500 mS, with 100 ms steps by using **B** key (to increase the value) and **C** (to decrease the value). Confirm the value pressing the **A** key.

This setting is used by all digital outputs.

Showing of the address for the communication network (ID ADR)

After the confirm with the **A** key of the previous value, the message **ID aDR** will appear on **F** display; to show the value that will identify the instrument when it will be connected in a Ethernet communication network. The values are from 1 to 247. This value can be changed only by the http page **modbus setup**. (see EMM-ETH Web Server Operating Manual in this manual). Press the **A** key to proceed.

Programming of the Password (SET PAS)

The instrument is supplied without password. When a password (from 0002 to 9999) is set, using the **B** (to increase), **C** (to decrease) and **A** (to confirm) keys, only who know this value can to enter in the setup. The password, in fact, is required all the time that someone try to enter in the setup (pressing the **A** and **B** key at the same time). If the password is wrong, the message **PASS ERR** will appear on **F** display and the instrument go back to the measures visualization. To input the password, when required by the instrument, at the enter of the setup, use the **A**, **B** and **C** keys as the same way done previously.

The menu is cyclic. After the last setting, the instrument go back to the first page of Setup (SETUP). It's always possible to come back to measures visualization mode pressing at the same time the **A** and **C** keys.

PEAK VALUES AND ENERGY COUNTERS RESET (RESET)

From the measures visualization mode, pressing the **A** and **C** keys simultaneously the message SETUP will appear on **F** display, press the key **C** until the message **RESET** appears on the same display. To accede to the menu, press the **A** key. Now it's possible to select the enabling of cancellation type, by pressing the **C** key, according with following types:

RESET PEA: all maximum value will be delete.

RESET AVG: all average and average maximum value (maximum demand) will be delete.

RESET EN: with **NORMAL** as energy mode (**EN**) the total energy counters will be delete, with **TOT PAR** the partial energy counters will be delete (as when the digital input is closed) and with **TB1 TB2** the band counters will be delete.

RESET ALL: to delete average maximum values and energy counters.

Entry to menu:



To enable the chosen type, press the **B** key to change the indication on display **G** from **NO** to **yes**.

Confirm enabling cancellation, by pressing the A key. The indication on display G change from yes to ---.

PROGRAMMING OF THE DIGITAL OUTPUT (SET DO1 SET DO2)

The DO1 and DO2 digital outputs have three modality of functioning: **PULSE**, alarm (**ALR**) and **REMOTE** command. The DO1 modality setting is independent from DO2. For example it's possible to set DO1 on **PULSE** (pulse emission) and DO2 on alarm mode (**ALR**).

In the menu **SET DO1** and **SET DO2** it's possible to program the function of all digital outputs. In these menus are available the following modality: **PULSE**, **ALR** and **REMOTE**.

In **PULSE** mode the digital output DO1 will emit pulses proportional to the active energy counted while the digital output DO2 will emit pulses proportional to the reactive energy counted. The proportionality will depend from the **PULSE** set in the **SETUP** and the duration of the impulse is set in the **TPL** voice of the **SETUP**.

The ALR modality is divided in two parts: ALR SYS 3PH and ALR SYS 123. With ALR SYS 3PH the digital output will function as alarm verifying that the three phase value doesn't exceed the threshold set (ALR HI and ALR LO). With ALR SYS 123 the digital output will function as alarm verifying that the maximum value of the single phases doesn't exceed the maximum threshold set (ALR HI) and that the minimum value of the single phases doesn't come down the minimum threshold set (ALR LO). The activation of the alarm output will come after some seconds of delay set(ALR DL).

In the **REMOTE** mode, the output status will be decided from the status of the correspondent MODBUS register (see protocol modbus manual for EMM).

Enter to menu:		
seT UP →	seT Up	
	RESET SET DO1	
	SET DO2	
	SET HR_	
	OFF OFF (the visualization depends	s on the settings and the I/O status)
	<u>Y</u> L PUI se	To choose the output modality
		(selecting PULSE or
	ALR PH_ 123 BY_ REMOTE	BY_ REMOTE the setting finish)
		the setting finish)
	ALR SEI VLN ALR SEI AMP	
	ALR SEI AMF ALR SEI AN (only for ALR SYS 3	3PH)
	ALR SEI P.f To chose the para	
		to control
	ALR SEI REA ALR SEI APP	(see variable list)
	ALR SEI VLL	
	ALR SEL FRE (only for ALR SYS	,
	Air sei T°c (only for ALR SYS 3P	PH)
	Set maximum alarm threshold	I Increase
		Decrease (after 0 there is OFF)
	\sum_{Σ} Set minimum alarm threshold	■ Increase
		Decrease (after 0 there is OFF)
	Set delay	Increase
		Decrease
	ΣL Confirm and end of digital outp	put settings.

ENTER IN THE SETUP

From the measures visualization, press at the same time the **A** and **C** keys, the message **SeT Up** will appear on the **F** displays.

CHOOSE THE DIGITAL OUTPUT TO PROGRAM

Press repeatedly the **C** key until the message **SET DO1** (DO1 output) or **SET DO2** (DO2 output) appears on the **F** display. Press the **A** key to select this setting.

SELECT THE MODALITY OF FUNCTIONING OF THE DIGITAL OUTPUT

To select the functioning mode, using the **B** and **C** keys, it's possible to select: **PULSE** (pulse emission), **ALR SYS 3PH**, (alarm on three phase value), **ALR PH_ 123** (alarm on minimum and maximum single phase value) and **BY_ REMOTE** (the digital output is managed using serial output). Press **A** key to confirm.

CHOOSE THE PARAMETER TO LINK TO THE DIGITAL OUTPUT

With an alarm modality set, it's necessary to select the parameters associated to the alarm output; by pressing the **B** and **C** keys until the parameter choice appears on the third part (L3) of **F** display and the glowing the corresponding led on the **D** bar. Press **A** key to confirm the set.

SET THE HIGH AND THE LOW THRESHOLDS

On **F** display will appear the message **ALR Hi** with the high threshold value; confirming with the **A** key on the same display will appear the message **ALR LO** with low threshold value. The **B** (to increase) and **C** (to decrease) keys are used to set the high and the low thresholds values. The range depends by the parameter and it is linked to the CT and VT ratios. Pressing **A** key to confirm.

The threshold set is linked with CT and VT ratios, for this reason it's necessary to make this operation after the programming of the CT and VT. The end scale value must be confirmed when CT and VT ratios are modified.

The low threshold will be lower than high threshold. If the high threshold is set as OFF the low threshold will have the range of the high threshold.

SET THE DELAY TO THE DIGITAL OUTPUT ACTIVATION

Now it's possible to set the delay that will pass between the alarm condition set and the activation of digital output. On **F** display will appear **ALR DLY** and the value expressed in seconds (range 1÷900). The modification of the value is done in the same way of the threshold set. With the confirmation (**A** key) the set is complete.

The programming will be referred to the digital output indicated on **G** display (**DO1** o **DO2**).

PROGRAMMING OF THE HOURS COUNTER (SET HR_)

The hour counter will be increased when the measure of the parameter will exceed the set threshold value.



SELECT THE PARAMETER TO LINK TO THE HOURS COUNTER

From the previous setting, pressing the **C** key it's possible to set the hours counter: the message **SET HR**_ appears on the **F** display. Press the **A** key to define the parameter to link to the hours counter. Press more time the **B** key to select the parameter and the **A** key to confirm it.

SET THE THRESHOLD

Subsequently it's necessary to set the threshold using the **B** (to increase) and **C** (to decrease) keys. Confirm with **A** key.

I/O INFO PAGE

After the hour counter set, the I/O info page appears in F displays: on the first part (L1) the status of digital input, on the second part (L2) the status of the first digital output (DO1), on the third part (L3) the status of the second digital output (DO2).

The visualization of the digital input status (activated that is supplied and deactivated that is not supplied) depends of the type of energy visualization: NORMAL, TOT PAR e TB1 TB2. With NORMAL the digital input will be indicated with ON (activated) or OFF (deactivated). With TOT PAR the visualization will be --- (deactivated) or RES (activated) to indicate the partial counter RESET execution. With TB1 TB2 will be visualized B1_ (input deactivated) or B2_ (input activated) to indicate the band active.

The status of the two digital outputs is **ON** if the digital output is activated or **OFF** if deactivated.

The status of the serial port appear on the **G** display when the instrument has this option. If the instrument receives data, it displays the letter R and the number of the instrument that is in communication while if the instrument transmits data, it displays the letter T.

VARIABLE LIST

- VLN three-phase voltage
- AMP three-phase current
- AN neutral current
- P.F three-phase power factor
- ACT active power
- **REA** reactive power
- APP apparent power
- VLL phase to phase voltage
- FRE frequency
- T°C temperature

MEASURES VISUALIZATION

The instrument is divided in two distinct section:

the first is composed by three displays (**F**), by **A** and **B** keys and by LED bar **D**; the second (in the low part) is composed by **G** display, by **C** key and by LED bar **E**.

The two sections are to consider as two different instruments in a only one box, in fact it's possible to act in a zone without to modify the visualization in the other (peak value and energy counters visualization excluded).

Visualization section 1

The three measures of phases (on L1, L2 and L3), of the parameter indicated from the led **D** on, appears on **F** display. For the measure

of the phase to phase voltages (V L-L), the three measures are V $_{L1-L2}$, V $_{L2-L3}$, V $_{L3-L1}$.

It's necessary to press the **B** button to select the parameter that can be displayed and indicated from **D** LED.

Press A button to see on F display the three phase value (the average of the single phase of voltage, current, power factor and the sum of single phase for the power) of the parameter selected,: the led inside the A key is on.

To press another time the same key the visualization come back at the phase values.

The unit of measurement can be expressed in kilo or Mega, in the this case the relative LED is on.

A sign – on the first digit indicates the visualization of the capacitive power factor (example the reading -.95 indicates a power factor of 0.95 capacitive)

Note: If in the Setup the single phase mode (**1PH L1**) is set, all the measures appear on the L1 display.

Visualization section 2

At the same way of the section 1, press the **C** button to select the parameter that can be displayed and indicated from **E** LED. The voltage values are of the three phase system, the frequency is of the L1 channel.

Visualization energy and hours counters

With the **C** key it's possible to visualize on **F** display the active, reactive and apparent energy counters. One segment of the right digit of the **G** display, in correspondence of the **kWh** and **KVArh** on the front panel, turn on, to indicate the visualization of the active and reactive energy counters. The led **VA** and the segment of the right digit of the **G** display, in correspondence of ...**h** on the front panel, turn on, to indicate the visualization of the apparent energy counter. To complete the visualization the led **k** over the **F** display could be on.

This is the visualization if **NORMAL** is the set in **EN** voice of the setup. Instead if the setting is **TOT PAR** on the **F** display will be visualized alternatively the partial and the total active, reactive and apparent energy counters; the first digit of the **G** display indicates the type of the counter: **P** for the partial (the user could be reset it) and **T** for the total (it's no possible to reset it). If the setting is **TB1 TB2** on F display will be visualized alternatively of the counters of the band 1 (**B1** on the first two digit of **G** display) and of the band 2 (**B1** on the first two digit of **G** display).

The right digit of **G** display, in correspondence of the ...h, turn on, when the visualization of hours counters is active.

The reading of the counters use the 9 digits (maximum reading 99999999.9) of the **F** display: the measure is displayed in the way that the L1 display will indicate the first 3 digits, the display L2 the seconds 3 digits and the L3 display the last 3.

For example if: L1=000, L2=028, L3=53.2 the reading is 2853.2 kWh.



VISUALIZATION PEAK AND AVERAGE VALUES

Pressing at the same time the **A** and **B** keys, on **F** display will appear the average and maximum stored value, that are selected using the **B** key while a luminous segment on the **G** display indicates the type of the maximum and/or average value.

AVG: the average values are calculated on a average time set. The calculation is at fixed window and it's sinchronized when the instrument turn on.

The stored maximum values are the two types:

MAX: the instantaneous maximum values store the maximum value achieved by the parameter of measure for at least one second.

MAX AVG: the average maximum values (maximum demand) store the maximum value achieved in the average time as set in the setup menu;



The integration for the calculating of the average values is synchronized all the time that the instrument turn on. Press **A** and **B** keys another time to come back to the measures visualization. The instrument will come back to the measure visualization automatically if for 10 seconds no one button is pressed.

The average value, the maximum value and the maximum average value selectable with **B** key are the following:

parameter	Identifications / description	G display
phase voltages	V L1-N max V L2-N max V L3-N max maximum instantaneous phase voltages	max- maxD- avg-
phase and neutral currents	I L1 max I L2 max I L3 max I N max maximum instantaneous phase currents	maxD- avg-
three-phase power	$\frac{\Sigma \text{ W}_{\text{max}}}{\text{maximum three phase powers }(\Sigma)} \frac{\Sigma \text{ VA}_{\text{max}}}{\Sigma \text{ VA}_{\text{max}}}$	max- maxD- avg-
phase and neutral currents	I L1 max avg I L2 max avg I L3 max avg I N max avg maximum of average phase and neutral currents (max. demand)	max- maxD- avg-
three-phase power	$\frac{\Sigma \text{ W}_{\text{max avg}}}{\text{maximum of average three phase powers (maximum demand)}}$	max- maxD- avg-
phase and neutral currents	I L1 avg I L2 avg I L3 avg I N avg average phase and neutral currents	maxD- avg-
three-phase power	$\frac{\Sigma \text{ W}_{\text{avg}}}{\text{average three phase powers}} \frac{\Sigma \text{ VA}_{\text{avg}}}{\Sigma \text{ VA}_{\text{avg}}}$	max- maxD- avg-

NOTE relative to the measure

The refresh time of the display is lower of a second and it depends by the time of calculating of the measure and concerning the methodology of measure used in the way to allow a comfortable reading of value also in presence of fast variation of the measure parameter.

If the multimeters are used on single phase lines, the measures are referred at the phase L3. The other data displayed and relative to the three-phase system must not considered.

If the measure indicated by the instrument are not reliable or absurd it's necessary to verify the connection of the measure inputs of currents and voltages because must be respected the sequence of the phase, the corresponding of the currents and voltages of the same phase (the L1 voltage phase and the TA located on L1 phase must be connected on the L1 input) and the sense of the current (the S1 terminals of the TA must be connected at the S1 terminals of the instrument).

In some application where the secondary is connected to other instruments apart from the EMM multimeter, some problems could happen concerning the typology of the amperometric inputs.

If there are some problem call the assistance service.



For more information on the TCP-IP protocol see the instruction manual IM151.

DIMENSIONS



TECHNICAL FEATURES

MEASURES, PREC	
voltage	true RMS of the phase voltages and the phase to phase voltages and values of three phase system
	range of total measure: 20÷500V trms phase-phase - 290V rms phase-neutral
	visualization (0,02÷50,0kV) - measure precision: ±0,5% ±1 digit– management maximum values
current	true RMS of the phase currents and of the value of three phase system
fra a	range of measure: 0,02÷5A trms - measure precision: ±0,5% ±1 digit - visualization 0,02÷9990A
frequency	frequency of the L1 phase –range of measure: 40+500Hz - precision: ±0,5% ±1 digit
powers	phase and three phase system apparent, reactive and active power range of measure: 0,001÷9990kW - 0,001÷9990kVAr - 0,001÷9990kVAr - 0,001÷9990kVA - precision: ±1% ±1 digit
power factor	phase and three phase power factor
	range of measure: -0,1+0,1 / precision: ±1% ±1 digit
energy measure	three phase system apparent, active and reactive energy
	range of measure: 0+999999999,9 kWh / kVArh - precision: ±1 - Class 2 CEI EN62053-21 - CEI EN62052-11
hours counters	precision: ±1%; risolution 1/10 of hour
AUXILIARY POWE	R SUPPLY, INPUTS
auxiliary power	100-125V / 220-240V ±10% - frequency 50-60Hz
supply	consumption max 6VA
voltage inputs	from 20 to 500V phase-phase; permanent overload +20% - input impedance: 1 M Ω
	insertion on three phase line with 3 wires, 4 wires and single phase
	insertion in MT with external TV and transforming rate programmable from 1 to 400
current inputs	from 0,02 to 5A; permanent overload 30% - from external TA with secondary 5A,
	primary programmable from 5 to 10000A - auto-consumption <0,5VA
INPUTS / OUTPUT	ſS
digital outputs	Two outputs with common, optomos 12+230Vac/dc, max 150mA,
	insulation: 3kV for 60 seconds
	Pulse Function:
	Weight programmable 0,01-0,1-1-10 kWh/pulse
	Pulse duration 100-200-300 400 500 milliseconds selectable
	DO1: active energy pulse output (accumulated Tb1+Tb2)
	DO2: reactive energy pulse output (accumulated Tb1+Tb2)
digital Input	Changing time band function or reset partial counters
	Opto-isolated input:
	Insulation: 2500 Vrms 60 seconds
	Impedance: 440 kohm
	OFF voltage range (Tb1 selected) - 0 a 20 V ca/cc ON voltage range (Tb2 selected or reset partial counters): - From 80 Vac to 250 Vac, 50/60Hz
	- From 90 Vdc to 300Vdc, polarised.
ethernet port	One Ethernet port with RJ45 connector, TCP-IP protocol
outornot port	http web server: port 80
	modbus TCP: port configurable (default: 1001)
GENERAL	
display, operators	4 displays with red LED 10mm everyone of 3 digit by 7 segments
· · · · · · · · · · · · · · · · · · ·	3 push-button for selecting measure and programming
mechanic	protection degree: IP52 frontal - IP20 enclosure and terminals - weight: about 0,5 kg
	connections with screw terminals for cable 2,5 mm ²
	enclosure thermoplastic self-extinguishing - flush mounting DIN 96x96mm, depth 95mm
environmental	working temperature: -10+60°C; humidity <90%
	storing temperature: -25÷70°C
	insulation test: 3 kV for 1 minute
standards	EN 50081-2; EN 61000-6-2 ; EN 61010-1
	Class 2 CEI EN62053-21 – CEI EN62052-11;
NOTE	

NOTE

At reason of the evolution of standards and products, the company reserves to modify in every time the features of the product described in this document, that it's necessary to verify preventively. The liability of the producer for damage caused by defect of the product "can be reduced or deleted (...) when the damage is caused joint by a defect of product or for blame of the damaged or a person of which the damaged is responsible" (Article 8, 85/374/CEE).

Electrical Multifunction Meter built-in Ethernet module Quick Overview

THE LOGIC OF OPERATION

From a logical point of view, the functions of EMM-Eth can be divided as follows:

- Collecting information in real-time of the data
- Serving instantaneous data collected
- Storing the data collected second criteria customizable
- Browsing by WEB graphics processing and data instant and historical

You can read all the electrical measures of the devices via TCP / IP. You can also get a complete and in real time overview, or analyze historical detailed report of all data monitored (Consumption, Power, Voltage, Current, Cos Phi, etc.) of the device everywhere in the world, provided they reach via TCP / IP.

Components

The components of EMM-Eth are: Collect data; Internal clock; Storing and processing; Graphical presentation of the data;

Collect data

These digital multimeters allow to monitor all the electrical parameters present on a distribution line.

These instruments, over of the instantaneous measures, display the maximum peak of the main parameters (maximum peak and maximum demand).

These multimeters replace in a unique device, all the functions of voltmeters, ammeters, energy meters, cosphimeters, wattmeters, varmeters, frequency meters permitting a great economic saving, a reduction of dimension and the wiring energy and a simplification in the purchase and management of the instruments because this is a model usable at all of need of local measure in the electrical panel, machine, etc.

Storing and processing

The storage and processing of collected data is carried out by the engine-modbus TCP inside of the device.

The monitored measures are customized by the user (3phase Voltage, 3phase Current, 3phase Active Power, 3phase Reactive Power, 3phase Apparent Power, 3phase Active Energy, 3phase Reactive Energy, 3phase Apparent Energy). Even the time range of resources storage is customizable by the user.

Graphical presentation of the data

The presentation of data and its history, is done via Web with a server web integrated into the engine EMM-Eth. You can view the data via any web browser and from any device that makes available access to web server of EMM-Eth. The WEB interface, scheduled for PCs, displays the general state of the EMM-Eth device (UP, DOWN) and all the electrical parameters present on a distribution line.



DEFAULT PARAMETERS

Username and Password

- Username: admin
- Password: admin

LAN configuration of the EMM-Eth device

- IP address: 10.0.0.100
- Subnet Mask: 255.0.0.0
- Gateway: 10.0.254
- TCP port: 1001

Restore to default parameters

Power off the instruments. Power on the instruments. Wait for end of blinking green led. Press and hold the button for at least 10 seconds.

CONFIGURATION

To access at the configuration of the EMM-Eth is essential that the computer uses TCP/IP and you can use a common graphical browsers (Internet Explorer, Firefox, etc.).

Open your browser and enter the URL http://10.0.0.100

You will be asked to authenticate to access the configuration and display the general state of the EMM-Eth instrument and the values of the measures:

SYSTEM STATUS

In this configuration page you can view some information on the system, including the firmware version loaded, the LAN IP address assigned to EMM-Eth multimeter, the modbus device address and the time interval for the storage of the measures.

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LAN SETUP				
	information			
TIME/DATE SETUP	Firmware Version Software Version	tios-em202-2_05_01 EMM-Eth-1_02		
MODBUS SETUP	Software version	Emm-Eur-1_02		
INSTANT VIEW	LAN Configuration			
	IP Address	10.0.0.151 255.0.0.0		
MAX/AVG VALUES	Subnet Mask Gateway	255.0.00 10.0.0.254		
HISTORICAL INFO	TCP Port	1002		
SYSTEM STATUS				
SYSTEM REBOOT	Modbus Setting EMM Address	08		
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	Interval Setting			
	Time Interval	15 min		
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RESOURCE STATE				
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CTALS 59				
RITICAL 0				
All Problems 0				
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LAN SETUP

In this window you can change the parameters for the LAN section, such as IP address, Subnet Mask, Gateway and the TCP port used. Press Save/Apply to save into flash the configuration.

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IP Address:IP address of the EMM deviceSubnet Mask:Subnet Mask addressGateway:Gateway addressTCP Port:TCP port number used to modbus-TCPNew Password:Set the new user password

TIME / DATE SETUP

In this section you can configure the parameters for synchronizing the date and time of the device. Press Save/Apply to save into flash the configuration.

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contrel elettronica		CURRENT DATE AND TIME		
LAN SETUP	Date Setup			
TIME/DATE SETUP	Date (YYYY-MM-DD)	15 3 4		
MODBUS SETUP	Time Setup Time of the day (hh:mm)	12 20		
INSTANT VIEW	Time of the day (meanin)	Save/Apply		
MAX/AVG VALUES		concertering		
HISTORICAL INFO				
SYSTEM STATUS				
SYSTEM REBOOT				
TARGET STATE				
TOTALS 1				
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All Problems 0				
RESOURCE STATE				
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CRITICAL 0 All Problems 0				
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Curren	nt date (YYYY-N	VIM-DD)		

Date: Time of the day: Current date (YYYY-MM-DD Current time (HH:MM)

MODBUS SETUP

In this window you can change the parameters relating to Modbus section, including the Modbus address of the instrument. Press Save/Apply to save into flash the configuration.

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version 1.0 Control Energy				
LAN SETUP	EMM Device Address			
TIME/DATE SETUP	ID Modbus (01247)	08		
MODBUS SETUP	Monitored Resource			
	Resource 1	3PhaseVoltage		
INSTANT VIEW	Resource 2	3PhaseCurrent		
MAX/AVG VALUES	Resource 3	ActivePower 💌		
HISTORICAL INFO	Resource 4	ActiveEnergy 💙		
SYSTEM STATUS	Resource 5	ReactiveEnergy		
SYSTEM REBOOT	Interval Time			
BS01347843904790794890488	Time Interval (min)	15		
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ID Modbus: EMM device Modbus address (01 .. 247) Monitored resource: Select 5 monitored resource name on a device Interval Time: Time range of the storage of collected measures

DATA GRAPHICAL PRESENTATION

The presentation of data and its history, is done via Web with a server-web integrated into the engine EMM-Eth. You can view the data via any web browser and from any device that makes available access to web server of EMM-Eth.

INSTANT VIEW

In this window you can see all the electrical instantaneous parameters present on a distribution line.



Target: Target Status: **Resource: Resource Status:** Last Checked: Resource Information: Measure's value Unit Measure:

Date and hour of last control executed Unit measure of electrical parameter

MAX / AVG DETAIL

In this window you can see the maximum peak, the last average of the main parameters (maximum peak and maximum demand).

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Target:	Monitored device name (ex. EMM01_MBUS)
Target Status:	Monitored device status (possible status: OK-DOWN)
Resource:	Name of the monitored eletrical parameter
Resource Status:	Monitored resource name possible status are OK-PENDING
Last Checked:	Date and hour of last control executed
Resource Information:	Measure's value
Unit Measure:	Unit measure of electrical parameter

HISTORICAL INFO

The storage and processing of collected data is carried out by the engine-modbus TCP inside of the device. The monitored measures are customized by the user (you can select from these measures: 3phase Voltage, 3phase Current, 3phase Active Power, 3phase Reactive Power, 3phase Apparent Power, 3phase Active Energy, 3phase Reactive Energy, 3phase Apparent Energy).

Overview CHstorical Info							
get Last Checked							
get Last Checked							
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	3PhaseVoltage IV1						
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25-07-2008 10:58:49	406	4.070	45.000	395948.5	316749.1		
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In this window is also reported total reset for energy counters and the date and time of the last reset done.

Troubleshooting

To use Ethernet communication with the *EMM-ETH*, configure the IP address of your computer.

Procedure: To change the IP address of a Windows XP computer, do the following:



