

Multi Function, Multi Tariff, MID Approved. Autometers Modbus V6.

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Introduction

The HT-1095 is a multifunction energy analyzer and is the latest in a new generation of MID approved intelligent panel meters used not only in the electricity transmission and power distribution system, but also in the power consumption measurement and analysis in high voltage intelligent power grid.

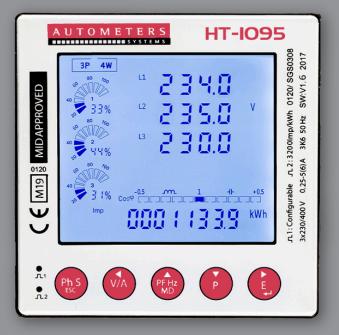
The HT-1095 is capable of measuring electricity in one phase two wire, three phase three wire or three phase four wire electrical systems.

The meter is a 96 x 96mm panel mounted meter designed to be easy to use and easy to read, the meter comes with five control buttons for scrolling and programming with a large back light display for ease of reading. See picture opposite.

The meter displays the following information: Voltage, Frequency, Current, Power active and reactive energy, imported or exported, Power factor, Max. Demand and Harmonics distortion measurement on current and voltage to the 63rd.

Energy is measured in terms of kWh, kVArh. Maximum demand current can be measured over preset periods of up to 60minutes. In order to measure energy the unit requires voltage and current inputs.

The HT-1095 is a 1 amp or 5 amp current operating measuring device and can only work with current transformers. Due to the design of the HT-1095 it is fully programmable via the front keys to enable a wide range of settings to match any current transformer manufactured.



The Information Centre can be supplied with a pulse Output or Autometers RS 485 Modbus protocol v.6. Configuration is password protected.

This document provides operating, maintenance and installation instructions for the Autometers HT-1095.



I. Unit Characteristics

1. 1 The Unit can measure and display:

- Line voltage and THD% (total harmonic distortion) of all phases
- 2~63rd voltage IHD% (Individual Harmonic distortion) of all phases
- Line Frequency
- Currents, Current demands and current THD% of all phases
- 2~63rd current IHD% of all phases
- Active power, reactive power, apparent power, maximum power demand and power factor
- Active energy imported and exported
- Reactive energy imported and exported
- Energy of each phase

IMPORTANT NOTICE

The HT-1095 is a MID approved panel meter, once you have altered any of the parameters e.g. Current transformer ratio or voltage ratio and you have come out of the programming mode you cannot alter them again.

This rule does not apply to the Modbus settings.

1.2 The unit has password-protected set-up screens for:

- Communication setting: Modbus address, Baud rate, Parity, Stop bit
- CT setting: CT (Primary), CT2 (Secondary), CT rate
- PT setting: PT (Primary), PT2 (Secondary), PT rate
- Pulse setting: Pulse output 1, Pulse rate, Pulse time
- Demand setting: Demand interval time, demand method
- Time setting: Backlit time, display scroll time
- Multiple tariff settings
- System configuration: System type, System connect, Change password, Auto display scroll
- Reset

1.3 CT and PT

CT (primary current) 1~2000A CT2 (secondary current): 1A or 5A PT (primary voltage): 1~2000V PT2 (secondary voltage): 100 to 480 V AC (L-L)

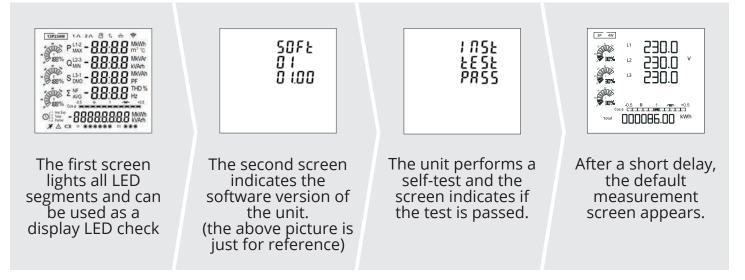
1.4 RS485 Serial-Modbus RTU

This unit uses a RS485 serial port with Modbus RTU protocol to provide a means of remote monitoring and controlling. Please check section 5.2 for the details of setting.

1.5 Pulse output

Two pulse outputs indicate real-time energy measurement. Pulse output 1 is configurable, pulse output 2 is fixed to active energy, 3200imp/kWh.

2. Start up screens



3. Keys and Displays

3.1 Button Functions

Button	Click	Press and hold down for 3 seconds
PhS	 Display power, voltage, current and energy information of each phase Escape the menu 	Automatic Scroll display ON / OFF
V/A	 Display voltage and current information of the selected system type. (3p4w, 3p3w and 1p2w) Left side move 	 Individual Harmonic Distortion of Voltage up to 63rd
PF Hz MD	 Display power factor, frequency, Max. Demand. Maximum and Minimum value. Up page or add value 	Individual Harmonic Distortion of Current up to 63rd
P	 Display active power, reactive power and apparent power information of the selected system type. Down page or reduce value 	 Modbus ID Baud rate Parity Identification code Running hours Full screen
E	 Display import / export active or reactive energy information of the selected system type. Right side move 	Set-up mode entryConfirmation



3.2 Display Mode Screen Sequence

Click button	3 Phase 4	4 Wire	3 Phase	3 Wire	1 Phase 2	2 Wire
	Screen	Parameters	Screen	Parameters	Screen	Parameters
	1	Phase 1 – Power	1	Phase 1 – Power	1	Phase 1 – Power
Dh S		Voltage		Current		Voltage
ESC		Current		kWh		Current
		kWh				kWh
	2	Phase 2 – Power	2	Phase 2 – Power		
		Voltage		Current		
		Current		kWh		
		kWh				
	3	Phase 3 – Power	3	Phase 3 – Power		
		Voltage		Current		
		Current		kWh		
		kWh				
	4	Phase 1 – Power	4	Phase 1 – Power	2	Phase 1 – Power
		Voltage		Current		Voltage
		Current		kVarh		Current
		kVarh		RVdiff		kVarh
	5	Phase 2 – Power	5	Phase 2 – Power		KVdIII
	5	Voltage	5	Current		
		Current		kVarh		
				KVdIII		
	6	kVarh Phase 3 – Power	6	Phase 3 – Power		
	0	Voltage	0	Current		
		Current		kVarh		
		kVarh		Kvalli		
	1	Voltage L1-N			1	Voltage L1-N
	I	Voltage L2-N			1	
$\lambda / / \Delta$		Voltage L3-N				
	2	Voltage L1-L2	1	Voltage L1-L2		
	2	Voltage L2-L3		Voltage L2-L3		
		Voltage L2-L3		Voltage L3-L1		
	3	Current L1	2	Current L1	2	Current L1
	5	Current L2	2	Current L2	2	
		Current L3		Current L3		
				Current L3		
	4	Current Neutral THD% of Voltage L1	3	THD% of Voltage L1-2	3	THD% of Voltage L1
	4		5	_	5	THD% OF VOILage LT
		THD% of Voltage L2		THD% of Voltage L2-3		
	5	THD% of Voltage L3	Λ	THD% of Voltage L3-1 THD% of Current L1	4	THD% of Current L1
	Э	THD% of Current L1	4		4	
		THD% of Current L2		THD% of Current L2		
	C	THD% of Current L3	F	THD% of Current L3		
	6	Phase Sequence	5	Phase Sequence		

AUTOMETERS Systems

Click button	3 Phase 4	1 Wire	3 Phase	3 Wire	1 Phase 2	2 Wire
	Screen	Parameters	Screen	Parameters	Screen	Parameters
	1	Total Power Factor	1	Total Power Factor	1	Total Power Factor
		Frequency		Frequency		Frequency
(PF HZ)	2	PF L1	2	PF L1		
IVID		PF L2		PF L2		
		PF L3		PF L3		
	3	Max. DMD of Current L1	3	Max. DMD of Current L1	2	Max. DMD of Current L1
		Max. DMD of Current L2		Max. DMD of Current L2		
		Max. DMD of Current L3		Max. DMD of Current L3		
	4	Max. DMD of W	4	Max. DMD of W	3	L1 Max. DMD of W
		Max. DMD of Var		Max. DMD of Var		L1 Max. DMD of Var
		Max. DMD of VA		Max. DMD of VA		L1 Max. DMD of VA
	5	Max. Voltage of L1	5	Max. Voltage of L1-2	4	Max. Voltage of L1
		Max. Voltage of L2		Max. Voltage of L2-3		
		Max. Voltage of L3		Max. Voltage of L3-1		
	6	Min. Voltage of L1	6	Min. Voltage of L1-2	5	Min. Voltage of L1
		Min. Voltage of L2		Min. Voltage of L2-3		
		Min. Voltage of L3		Min. Voltage of L3-1		
	7	Max. Current of L1	7	Max. Current of L1	6	Max. Current of L1
		Max. Current of L2		Max. Current of L2		
		Max. Current of L3		Max. Current of L3		
		Max. Current of N		Max. Current of N		
	8	Min. Current of L1	8	Min. Current of L1	7.	Min. Current of L1
		Min. Current of L2		Min. Current of L2		
		Min. Current of L3		Min. Current of L3		
		Min. Current of N		Min. Current of N		
	1	Active Power L1	1	Active Power L1		
		Active Power L2		Active Power L2		
(P)		Active Power L3		Active Power L3		
	2	Reactive Power L1	2	Reactive Power L1		
		Reactive Power L2		Reactive Power L2		
		Reactive Power L3		Reactive Power L3		
	3	Apparent Power L1	3	Apparent Power L1		
		Apparent Power L2		Apparent Power L2		
		Apparent Power L3		Apparent Power L3		
	4	Total Active Power	4	Total Active Power	1	L1 Active Power
		Total Reactive Power		Total Reactive Power		L1 Reactive Power
		Total Apparent Power		Total Apparent Power		L1 Apparent Power

Click button	3 Phase 4 Wire		3 Phase 3 Wire		1 Phase 2 Wire	
	Screen	Parameters	Screen	Parameters	Screen	Parameters
	1	Import kWh	1	Import kWh	1	Import kWh
	2	Export kWh	2	Export kWh	2	Export kWh
(E)	3	Import kVarh	3	Import kVarh	3	Import kVarh
	4	Export KVarh	4	Export KVarh	4	Export KVarh
	5	T1 import kWh	5	T1 import kWh	5	T1 import kWh
	6	T2 import kWh	6	T2 import kWh	6	T2 import kWh
	7	T3 import kWh	7	T3 import kWh	7	T3 import kWh
	8	T4 import kWh	8	T4 import kWh	8	T4 import kWh
	9	Date	9	Date	9	Date
	10	Time	10	Time	10	Time

3.3 Individual Harmonic Distortion:



Press the button V/A for 3 seconds to check Harmonic distortion of voltage

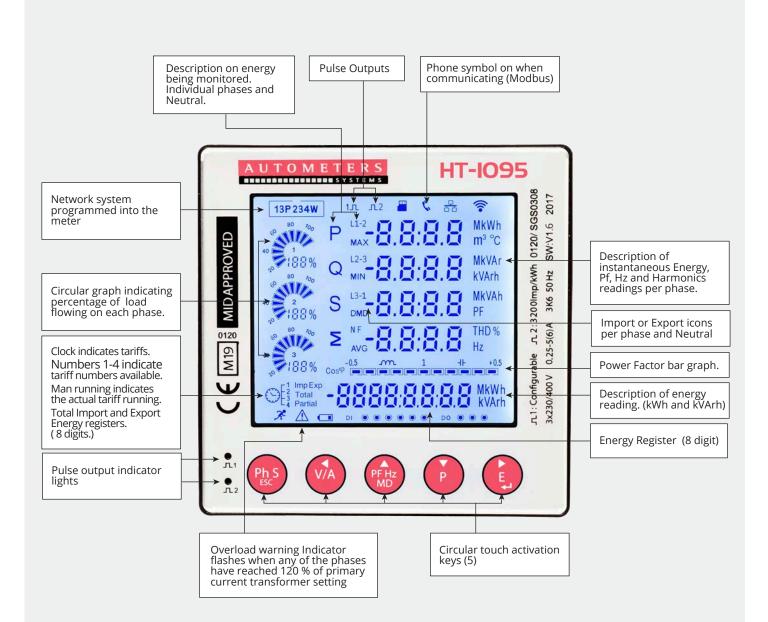
2~63rd Harmonic distortion of voltage



Press the button for 3 seconds to check Harmonic distortion of current

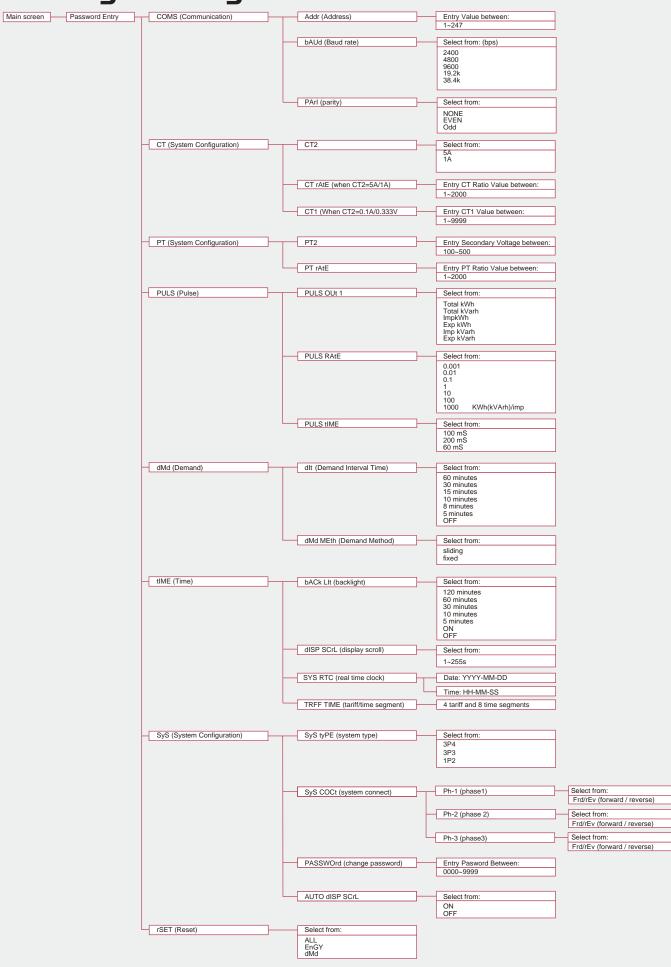
2~63rd Harmonic distortion of current

4. Display information





5. Programming the meter



U T O M E T E

5.1 Password Entry

PR55	Setting-up mode is password protected, so you must enter the correct password.
1000	By firmly pressing the button for 3 seconds, the password screen appears.
	The default password is 1000. If an incorrect password is entered, the display shows ERR.

5.2 Communication

58£	The RS485 port can be used for communications using Modbus RTU protocol. Parameters such as Address, Baud rate and Parity can be selected.
COAS	Long press to enter the Address option.

5.2.1 Address

An RS485 network can accommodate up to 247 different devices, each 588 identified by an individual address. 7558 The Modbus address range on the HT-1095 is between 001~247 Default setting from Autometers is 001 Long press (E) to enter the selection routine. The address setting will flash. Use The and to increment or reduce the number. Long press (E) for confirmation.

5.2.2 Baud rate



Baud rate options: 1200 2400 4800 9600 19200 38400 (bps). Default: 9600bps

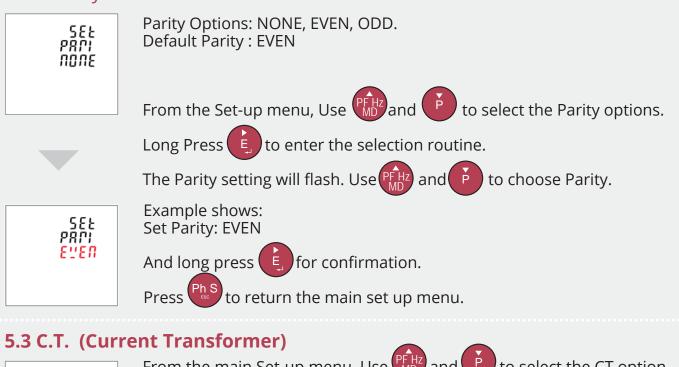
From the Set-up menu, Use $\stackrel{\text{PFHz}}{\stackrel{\text{Point}}{\stackrel{\text{PFHz}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}{\stackrel{\text{Point}}{\stackrel{\text{Point}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}{\stackrel{\text{Point}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}{\stackrel{\text{Point}}}}{\stackrel{Point}}} \\{Point}}{\stackrel{Point}}{\stackrel{Point}}} \\{Point}}{\stackrel{Point}}\\{Point}}\\{Point}}\\\stackrel{Point}}{\stackrel{Point}}} \\{Point}}\\\stackrel{Point}}{\stackrel{Point}}\\{Point}}\\\\{Point}}\\\stackrel{Point}}{\stackrel{Point}}} \\{Point}}\\\stackrel{Point}}{\stackrel{Point}}} \\\\{Point}}\\\\{Point}}\\\stackrel{Point}}\\\\{Point}}\quad{Point}}\\\\{Point}}\quad\\{Point}}\\\\{Point}}\quad\\{Point}}\quad\\{Point}\\\\{Point}}\quad\\{Point}}\quad\\{Point}}\quad\\{Point}}\quad\\{Point}\\\\{Point}}\quad\\{Point}}\quad\\{Point}\\\\{Point}}\quad\\{Point}\\\\{Point}}\quad\\{Point}\\\\{Point}}\quad\\{Point}\\\\{Point}\\\\{Point}}\quad\\{Point}}\quad\\{Point}\\\\{Point}\\\\{Point$

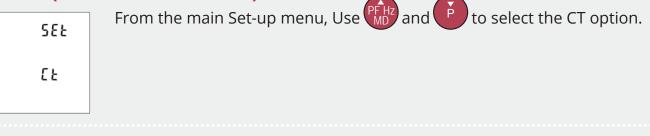
Long press (E) to enter the selection routine.

The Baud Rate setting will flash. Use PFHZ and P to choose Baud Rate.

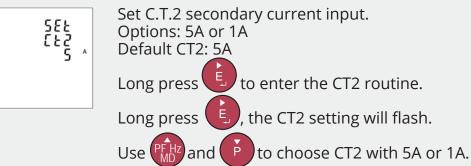
And long press (for confirmation







5.3.1 C.T.2 (Current Transformer)



5.3.2 C.T. Rate (Current Transformer)



To set the primary current ratio in the meter you must program the divider into the meter. e.g. to set 200/5 amp input "0040" (Divide the primary by 5) 5 amp being the secondary of the c.t. see section 5.3.3 for the table.

Options: 1~2000 Default CT rate 1. (New Ratio Must Be Programmed Into The Meter)

Long press 🤩 to enter the CT Rate routine.

long press , the CT rate setting will flash.

Use $\frac{PFH2}{MD}$ and P to choose CT rate with 1~2000.

And long press **E** for confirmation

5.3.3. Example of meter set at 200/5 amp



Example of how the display should look for a meter programmed to 200/5 amp. See table for more settings.

C.T Primary	Number to program into the meter	C.T Primary	Number to program into the meter
100/5	20	800/5	160
150/5	30	1000/5	200
200/5	40	1200/5	240
250/5	50	1500/5	300
300/5	60	1600/5	320
400/5	80	2000/5	400
500/5	100	2500/5	500
600/5	120	3000/5	600

5.4 P.T. (Voltage Supply)

58£ P£

The meter has been designed to work in 3 phase 4 wire or a 3 phase 3 wire network and this requires a primary and secondary voltage ratio input. The default is a 3 phase 4 wire configuration.

Long press to enter the PT2 routine.

For example:

A 3 phase 3 wire, 11000/110 Volt configuration: Set the secondary (P.T.2) to 110 and the "RATE" (P.T.1 multiplier) to 100. (110 X100 = 11,000)

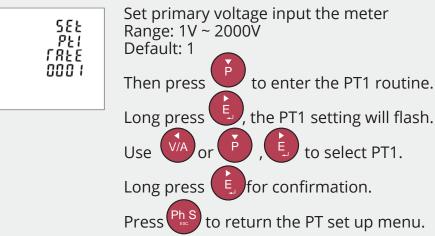
5.4.1 P.T.2 (voltage supply)



Set secondary voltage input the meter Range: 100V ~ 480V Default: 230V (L-N)

Long press **(i)** for confirmation.

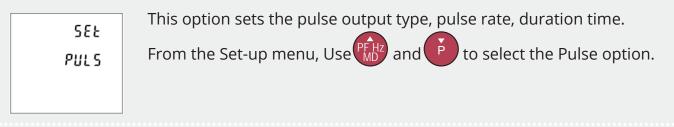
5.4.2 P.T.1 (Primary Voltage)



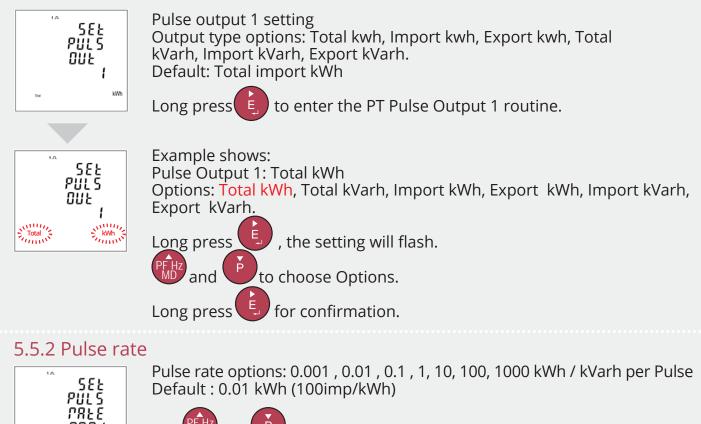


5.5 Pulse

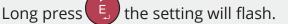
This option allows you to configure the pulse output. The output can be set to provide a pulse for a defined amount of energy active or reactive.



5.5.1 Pulse output1









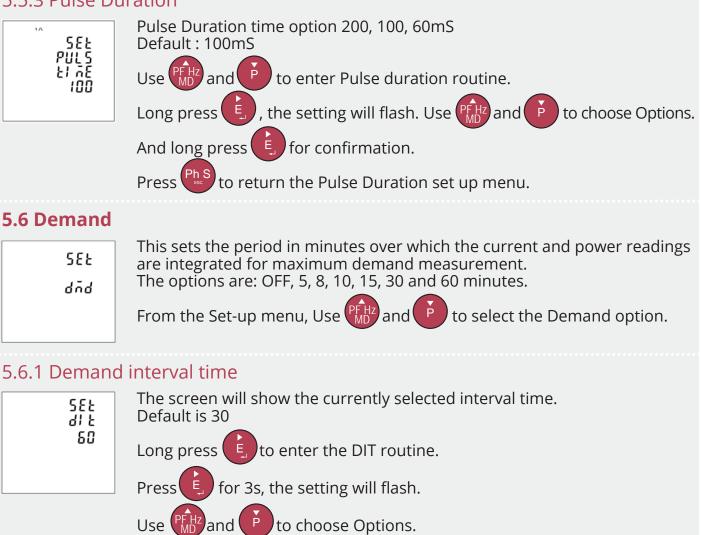
Long press (E) for confirmation.



0.001

Example shows: Pulse rate: 0.01

5.5.3 Pulse Duration



5.6.2 Demand method

Long press



The screen shows the Demand calculation method: Fixed interval time or Sliding window.

Use what and be to enter Demand calculation method.

for confirmation.



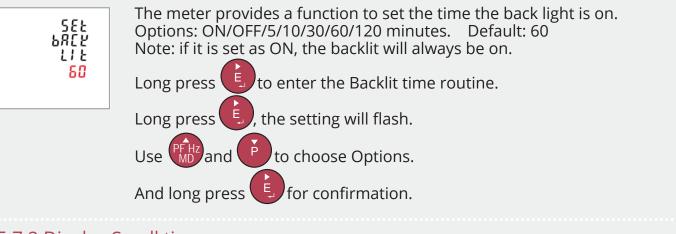
Long press to enter the routine. The setting will flash. Use and to choose Options. And long press for confirmation.

Press to return the Demand set up menu.

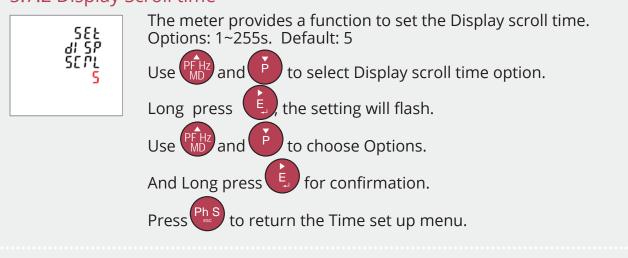
5.7 Back light display time setting.

5ELThis option sets the backlight on time and display scroll time.EL AEFrom the Set-up menu, Use The and to select the Time option.

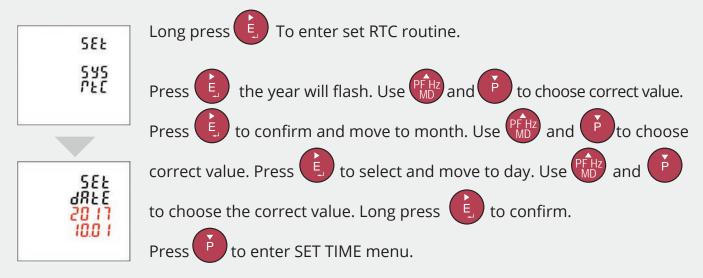
5.7.1 Backlight time



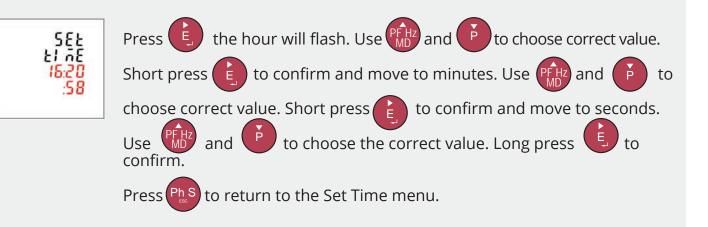
5.7.2 Display Scroll time

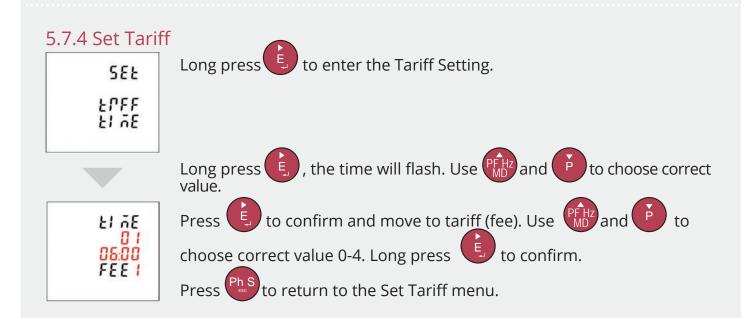


5.7.3 Set System RTC & Time

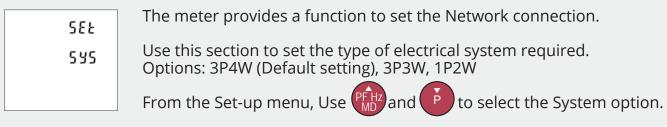


AUTOMETERS SYSTEMS





5.8 System (Network Connection)



5.8.1 System Network



The screen shows the currently selected power supply is three phase four wire



Long press 😎 to enter the System type routine.



Long press (), the setting will flash. Use PFR and



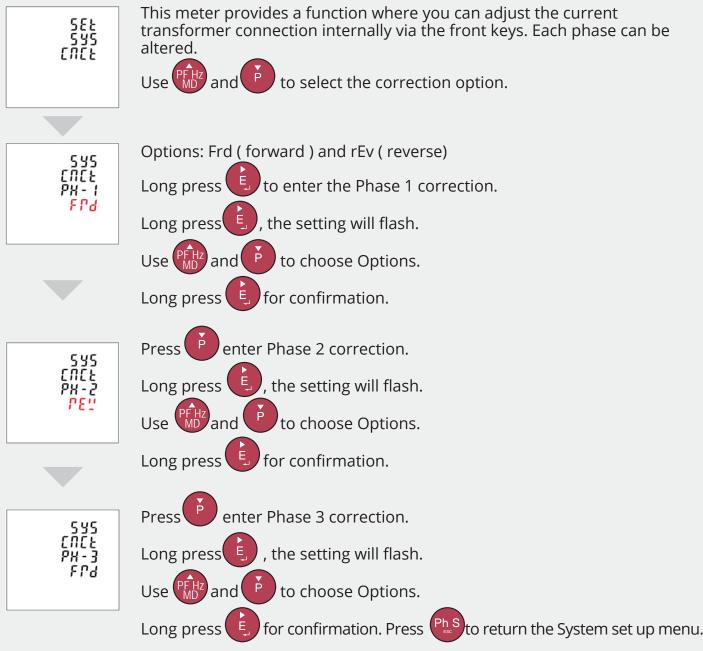
And Long press 🕒 for confirmation.



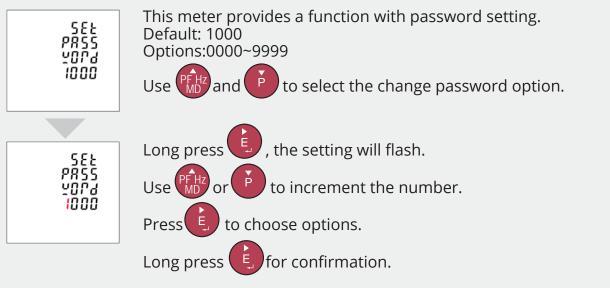
Example:

The screen shows the meter is currently set up to monitor a three phase three wire network.

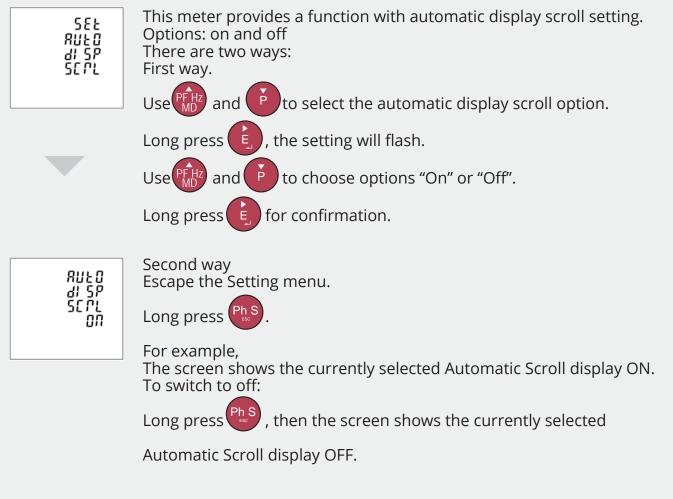
5.8.2 System Connect (C.T correction)



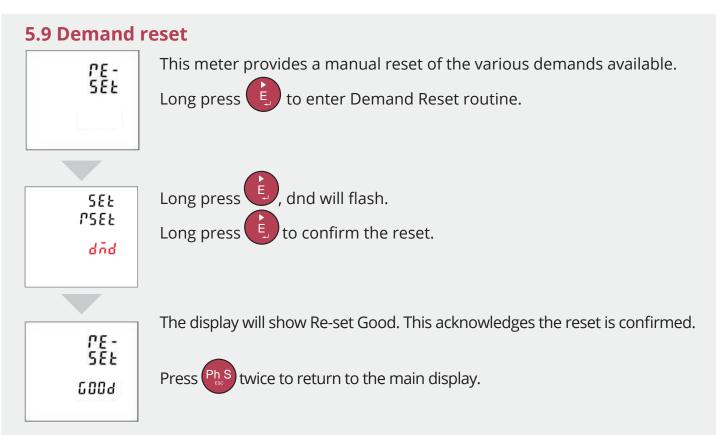
5.8.3 Change password



5.8.4 Automatic display scroll







6. Specification

6.1 Measured Parameters

The unit can monitor and display the following parameters of a 1 phase 2 wire, 3-phase 3-wire or 3-phase 4-wire supply.

6.1.1 Voltage and Current

Rated Voltage Input: 3x230/400V 50Hz Installation Category III (600V) Rated Current: 5A Current input range: 5%~120% Ib Percentage total voltage harmony distortion (THD %) for each phase to N Percentage current harmonic distortion for each phase Current on each phase

6.1.2 Power factor and Frequency and Maximum Demand

Frequency in Hz (45~66Hz) Instantaneous power: Power 0 to 9999MW Reactive Power: 0 to 9999MVAr Volt-amps: 0 to 9999 MVA Maximum demanded power from last reset. Maximum demand current, from last reset (three phase supplies only)

6.1.3 Energy Measurements

Imported active energy...... 0 to 9999999.9 kWh Exported active energy..... 0 to 9999999.9 kWh Imported reactive energy.... 0 to 9999999.9 kVArh Exported reactive energy.... 0 to 9999999.9 kVArh Total active energy..... 0 to 9999999.9 kWh Total reactive energy..... 0 to 9999999.9 kWh

6.1.4 Accuracy

- Voltage VL-N..... 0.5%
- Voltage VL-L..... 0.5%
- Current...... 0.5%
- Frequency...... 0.1
- Apparent power...... 0.5%Reactive power...... 1%
- Active energy...... EN50470-1/-3 Class C and Class B IEC62053-21 Cl.1 or
- IEC62053-22 Cl.0.5S
- Reactive energy..... IEC62053-23 CL.2

6.1.5 Display

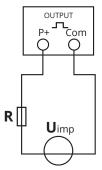
- Liquid crystal display with backlit (360° Full viewing angles)
- 4 lines, 4 digits per line to show electrical parameters
- 5th line, 8 digits to show energy
- Bar graph for power indication
- Display update time: 1 sec. for all parameters
- Display scrolling: automatic or manual (Programmable)



6.1.6 Pulse Output

The pulse outputs can be set to generate pulses to represent kWh/kVarh Pulse constant: 0.001/0.01/0.1/1/10/100/1000 kWh or kVarh per Pulse Pulse width: 200/100/60 Ms. The pulse output is passive type, complies with JEC62052 21 Class A

The pulse output is passive type, complies with IEC62053-31 Class A.



ATTENTION: Pulse output must be fed as shown in the wiring diagram below. Scrupulously respect polarties and the connection mode. Opto-coupler with potential-free SPST-No Contact. Contact range: 5~27VDC Max. current Input: 27mADC

6.1.7 Modbus RTU

Interface standard and protocol: RS485 and MODBUS RTU Communication address: 1~247 Transmission mode: Half duplex Data type: Floating point Transmission distance: 1000m Maximum Transmission speed: 1200bps~38400bps Parity: None, Odd, Even Response time: <100 MS

For Modbus RTU, the following RS485 communication parameters can be configured from the Set-up menu:

Baud rate 1200, 2400, 4800, 9600, 19200, 38400 **Parity** none/odd/even **RS485 network address** – 3-digit number, 001 to 247

Autometers Default Setting:

Baud rate: 9600 Parity: Even Stop bits: 1 FT: High word first

6.1.8 Dimensions and Material

The meter is a 96 x 96 mm panel mounted meter with a depth of 70mm The cut out hole for the panel meter is 92 x 92 mm. ■ Manufactured in Self-extinguishing UL 94 V-0

6.2 Environment

Operating temperature Storage temperature Relative humidity	25°C to +55°C 40°C to +70°C 0 to 95%, non-condensing
Altitude	<2000 meters
Vibration	. 10Hz to 50Hz, IEC 60068-2-6, 2g
Pollution degree	. , , , , , , , , , , , , , , , , , ,
Pollution degree Protection against dust and water	. IP51(indoor)
Mechanical environment	. M1
EMC environment	.E1

7. Maintenance

In normal use, little maintenance is needed. As appropriate for service conditions, isolate electrical power, inspect the unit and remove any dust or other foreign material present. Periodically check all connections for freedom from corrosion and screw tightness, particularly if vibration is present.

The front of the case should be wiped with a dry cloth only. Use minimal pressure, especially over the viewing window area. If necessary wipe the rear case with a dry cloth. If a cleaning agent is necessary, isopropyl alcohol is the only recommended agent and should be used sparingly. Water should not be used. If the rear case exterior or terminals should be contaminated accidentally with water, the unit must be returned to Autometers Systems Ltd for inspection and testing.

8. Installation

The meter may be mounted in a panel with a maximum thickness of 3 mm. Leave enough space behind the instrument to allow for bends in the connection cables. The unit is intended for use in a reasonably stable ambient temperature within the range -25°C to +55°C. Do not fit the meter where there is excessive vibration or in excessive direct sunlight. *Please note terminal covers should be fitted and sealed. See connection diagram page 21, 22.*

8.1 Safety

The unit is designed in accordance with IEC 61010-1:2010 – Permanently connected use, Normal condition. Installation category III, pollution degree 2, basic insulation for rated voltage.

9. Electrician.

The HT-1095 panel meter should only be installed by a fully qualified electrician who has knowledge of electricity meters connected with current transformers.

It is the installer who is fully responsible for the safe installation of this meter. It must be installed to meet the current electrical regulations concerning installation of panel meters.

IO. EMC Installation Requirements

Whilst this unit complies with all relevant EU EMC (electro-magnetic compatibility) regulations, any additional precautions necessary to provide proper operation of this and adjacent equipment will be installation dependent and so the following can only be general guidance: Avoid routing wiring to this unit alongside cables and products that are, or could be, a source of interference.

The auxiliary supply to the unit should not be subject to excessive interference. In some cases, a supply line filter may be required.

To protect the product against incorrect operation or permanent damage, surge transients must be controlled. It is good EMC practice to suppress transients and surges at the source. The unit has been designed to automatically recover from typical transients; however in extreme circumstances it may be necessary to temporarily disconnect the auxiliary supply for a period of greater than 10 seconds to restore correct operation.



Screened communication leads are recommended and may be required. These and other connecting leads may require the fitting of RF suppression components, such as ferrite absorbers, line filters etc., if RF fields cause problems.

It is good practice to install sensitive electronic instruments that are performing critical functions in EMC enclosures that protect against electrical interference causing a disturbance in function.





- During normal operation, voltages hazardous to life may be present at some of the terminals of this unit. Installation and servicing should be performed only by qualified, properly trained personnel abiding by local regulations. Ensure all supplies are de-energized before attempting connection or other procedures.
- Terminals should not be user accessible after installation and external installation provisions must be sufficient to prevent hazards under fault conditions.
- This unit is not intended to function as part of a system providing the sole means of fault protection - good engineering practice dictates that any critical function be protected by at least two independent and diverse means.
- The unit does not have internal fuses therefore external fuses must be used for protection and safety under fault conditions.
- Never open-circuit the secondary winding of an energized current transformer.
- This product should only be operated with CT secondary connections Earthed.
- If this equipment is used in a manner not specified by the manufacturer, protection provided by the equipment may be impaired.

Auxiliary circuits (communication & relay outputs) are separated from metering inputs and 110-400V auxiliary circuits by at least basic insulation. Such auxiliary circuit terminals are only suitable for connection to equipment which has no user accessible live parts. The insulation for such auxiliary circuits must be rated for the highest voltage connected to the instrument and suitable for single fault condition. The connection at the remote end of such auxiliary circuits should not be accessible in normal use. Depending on application, equipment connected to auxiliary circuits may vary widely.

II. Dimensions

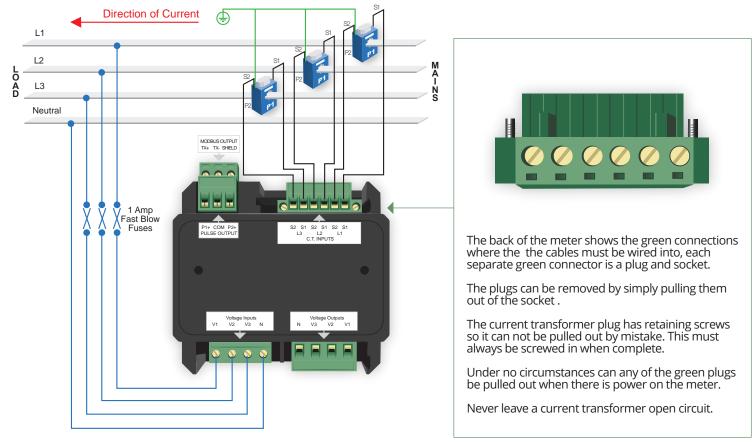
The meter is a 96 x 96 mm panel mounted meter with a depth of 70mm The cut out hole for the panel meter is 92 x 92 mm.



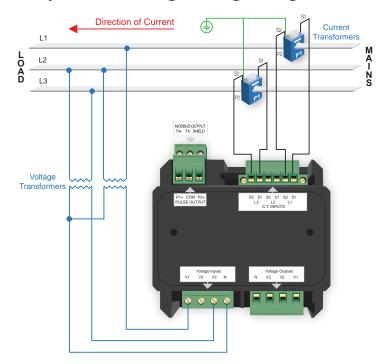
I2. Wiring Diagram

It is imperative that the current transformers are of the correct accuracy, fitted correctly and the meter is programmed to match the current transformers ratio.

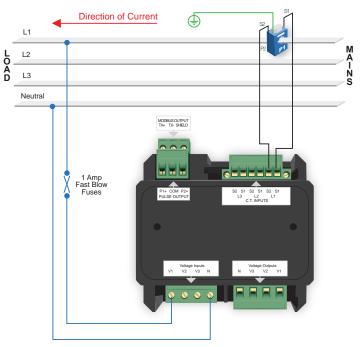




3 phase 3 wire high voltage using VTs



1 phase 2 wire





I3. Metal enclosures for the HT-IO95

Autometers now manufacture a number of metal enclosures for the full range of meters it supplies.

The New UE-1 enclosure is the latest design for the range of Autometers panel meters.

The enclosure consists of a fuse and shorting terminal arrangement all pre wired to the meter inside the enclosure.





Danger 415 Volts

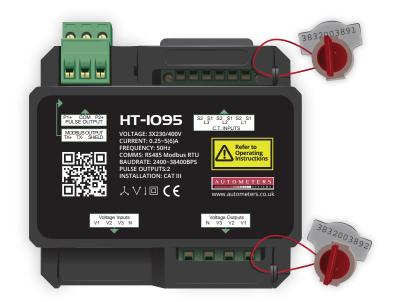
solate electricity supply

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Picture showing sealing points for the HT-1095 meter.

Seals must be fitted at these points to fully comply to the MID specifications.



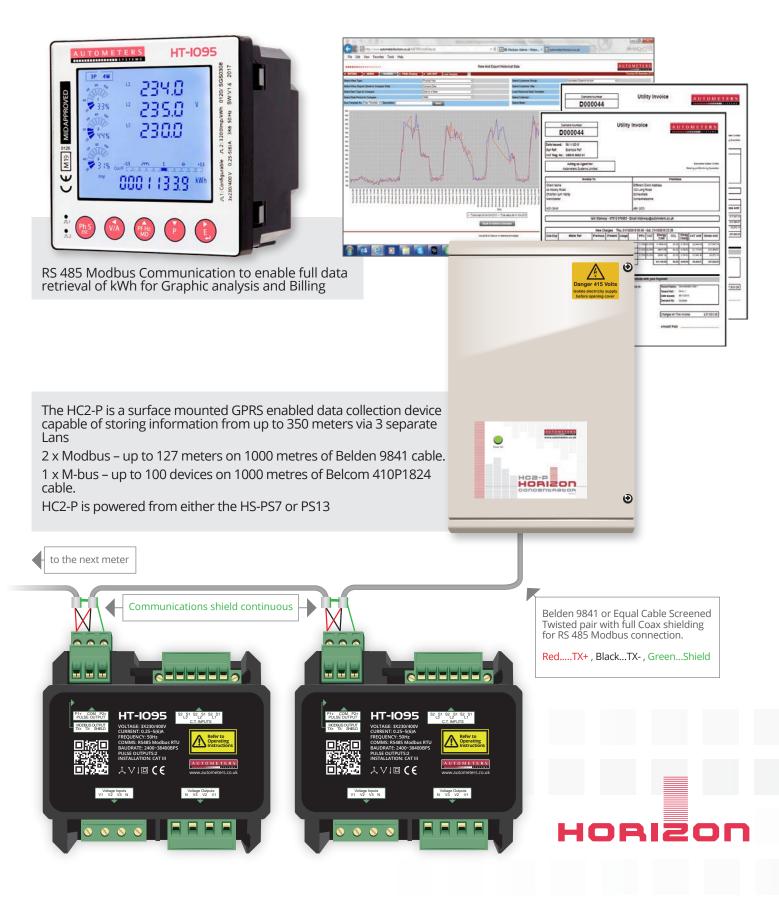
AUTOMETERS

Declaration of Conformity for the HT-1095 Panel Meter.

We, Autometers Systems Ltd, declare under our sole responsibility as the manufacturer of the HT-1095 that the three phase four wire multifunction electrical energy meter "HT-1095" series correspond to the production model described in the EU-type examination certificate and to the requirements of the directive 2014/32/EU type examination certificate number 0120/SGS0308. Identification number of the NB0120.



I5. The Horizon Energy Monitoring System with the new HT-IO95



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Product development is continuous and Autometers Systems Limited reserves the right to make alterations and manufacture without notice. Products as delivered may therefor differ from the descriptions and illustrations in this publication

