

#### Programming the meter

When you receive the meter there will be at least one value that you must programme into the meter. This is the current transformer ratio.

If the meter has been purchased with the intention of using the RS 485 Modbus output then you will have to program the Modbus parameters you require. See reverse Communication. (RS 485 Modbus)

# **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.

# Meter programming check



To check the settings which have been progammed into the meter

Long press

P Modbus Address. Short press PFHz to scroll through the other settings:

#### **Baud Rate**



Parity Primary current transformer ratio (c. .t 1) Secondary current transformer ratio ( c.t. 2) Meter serial number, 7 day program time Date and Time Tariff 1-8 Full test icons on display

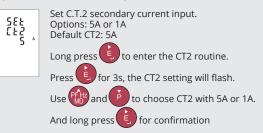
#### Password Entry



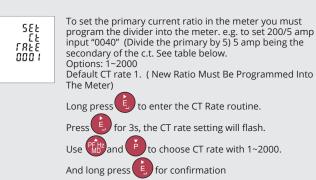
# C.T. (Current Transformer)



# C.T.2 (Current Transformer)



# C.T. Rate (Current Transformer)



# HT-1095 METER Quick setup guide



# Example of meter set at 200/5 amp Example of h

the display sl

look for a me programmed

200/5 amp.

See table for

more setting

iow hould eter	C.T Primary	Number to programinto the meter
d to	100/5	0020
	150/5	0030
-	200/5	0040
s.	250/5	0050
	300/5	0060
	400/5	0080
	500/5	0100
	600/5	0120
	800/5	0160

# Example of meter set at 200/I amp Example of how

566 7866 0200

the display should look for a meter programmed to 200/1 amp. See table for more settings.

C.T Primary	Number to program into the meter
100/1	0100
150/1	0150
200/1	0200
250/1	0250
300/1	0300
400/1	0400
500/1	0500
600/1	0600
800/1	0800

**R**|||

OUTPUT

Uimp

Com

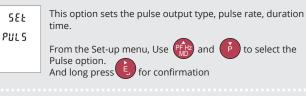
#### Pulse Output

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 IEC62053-31 Class A.

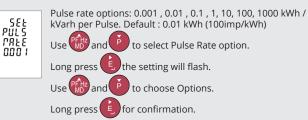
ATTENTION: Pulse output must be fed as shown in the wiring diagram below. Scrupulously respect polarties and the connection mode. Opto-coupler with potential-free SPST-No Contact. Contact range: 5~27VDC Max. current Input: 27mADC

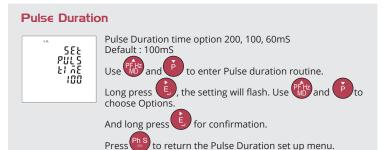
#### Pulse

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.



# Pulse rate





#### Communication (RS 485 Modbus)

	200	
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Indication only

Long press

#### Communication status

ГS 485
00

Address

An RS485 network can accommodate up to 255 different devices, each identified by an individual address.

The Modbus address range on the HT-1095 is between 001~247

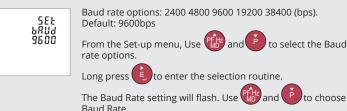
to enter the selection routine.

Default setting from Autometers is 001

The address setting will flash. Use increment or reduce the number.

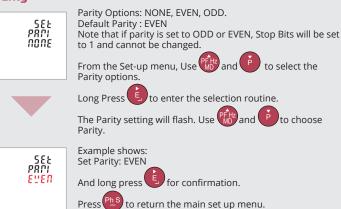
for confirmation. Long press

# Baud rate



And long press for confirmation

# Parity



# **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.

#### **EMC Installation Requirements**

Please see full installation brochure for details - visit autometers.co.uk

#### Wiring Information

# Power Supplu

The HT-1095 receives it power from any one of the voltage connections and Neutral.

#### Wirina

Electrical and communication connections are made directly to the back of the meter.

The electrical connections of voltage, current and Pulse output are made directly to the back of the meter. The RS 485 Modbus connections are at the top on the side of the meter.

All terminals are green in colour and can be unplugged, The current terminals are screwed in but can be unplugged if the screws are removed

#### Electrical Connections

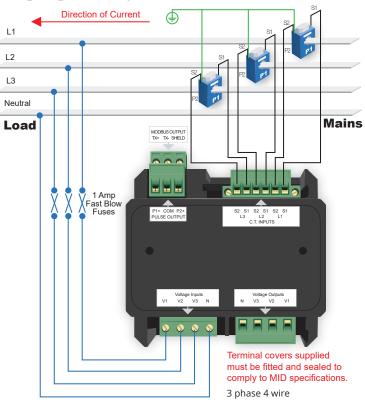
2.5mm flexible stranded cable is recommended for all main electrical connections. For the low voltage communication connections we recommend a twisted shielded cable Belden 9841 2 wire or 9842 4 wire or equivalent.

Phasing and polarity of the AC current and voltage inputs and their relationship is critical to the correct operation.

#### 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.

#### Wiring Diagram for 3 phase 4 wire



For full installation brochure please visit autometers.co.uk

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