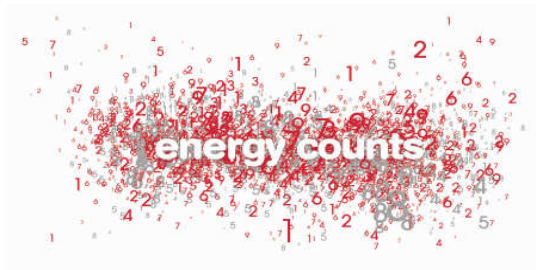


EDMI Mk10 Electricity Meter



User Guide to LCD Screen Displays

Version 1.4



1.0 INTRODUCTION

The EDM1 Mk10 meter is a new development of 'Smart' metering used to measure Electricity consumption. It is a unique product which enables energy usage to be continually measured and stored and then data is transmitted to the Supply Company when needed for billing.

The meter has a large number of features, readily available, to provide Users with detailed information about their electricity supply including Tariff (Standard Settlement Configuration - SSC), Power Factor, Maximum Demand and Total Billing Consumption together with individual Rate consumption for consumers on multi rate tariffs.

In addition, there is an option to obtain analysed billing data information via a web link. Users can then see a detailed breakdown of their energy usage and time of use to enable any unplanned wastage to be eliminated and help manage more efficient usage, as part of an energy management process.

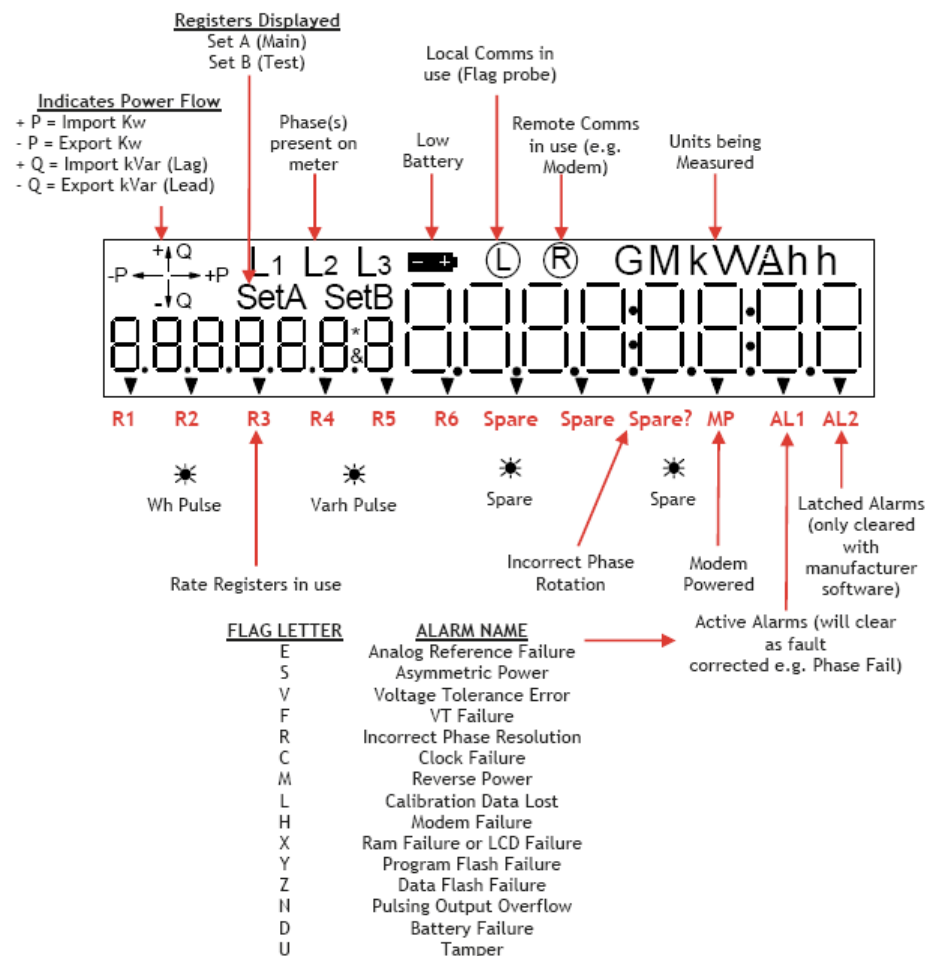
2.0 ACCESS TO DISPLAY SCREENS

Access to all the features of the meter only requires the pushing of a single 'display' button on the meter. The meter has two main displays called 'Set A' and 'Set B'. To move from 'Set A' to 'Set B' you simply press and hold the 'display' button for approximately 2 seconds.

Details of all the individual LCD screens within each 'Set' are shown on the following pages.

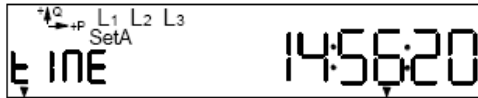
To cycle within the 'Set' you simply press the display button and the display will advance one step. Continual individual presses of the button will eventually cycle the display back to your starting point.

3.1 THE SCREEN WITH ALL SEGMENTS ILLUMINATED



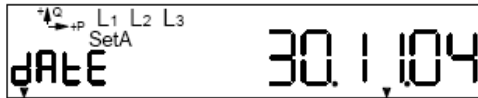
3.2 SET A - METER READ INFORMATION

Current Time (GMT)



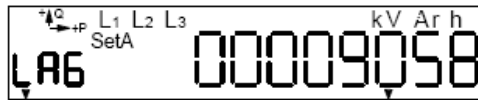
Please note that the display will remain where last used and NOT revert back to the Time if no buttons have been pressed during the last 30 seconds.

Current Date
(30th November Shown)



Register Identifiers
(for reading purposes)

kVarh Lag
(Sine Meter Reading)



KV

kVAh
(Apparent Energy Meter Reading)



KZ

This meter always displays in units (~ no K=10 for high CT ratios)

The Total kWh (Import) Register will only be displayed for the Single Rate Tariff, followed by the MDs then the Test Display

Total kWh (Import)



S

Rates 1,2 etc will only appear next in sequence if required by a multi rate tariff

3.2 SET A - METER READ INFORMATION (CONT.)

Rate 1 kWh
(followed by other rates)



R1,
R2,

Followed by Rate 2

Maximum Demand in KW
(Highest Demand since last reset)



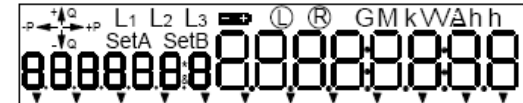
MD

Maximum Demand in KVA
(Highest Demand since last reset)



MZ

Test Display
(All segments illuminated)

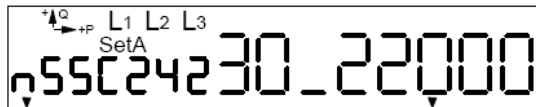


3.2 SET A - TARIFF & MPAN INFORMATION

CT Ratio (Primary Current)
(e.g. 200/5, 400/5 etc)



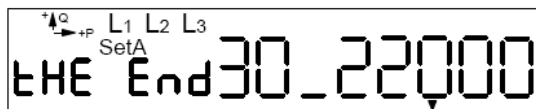
Tariff & MPAN Number
(e.g. SSC 242)



SSC Code

Indicates the start of the MPAN number which scrolls across the display

Final Display & MPAN



Indicates the start of the MPAN number which scrolls across the display

This is the last display before reverting back to the first display : Current Time

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3.3 SET B - SUPPLEMENTARY INFORMATION

Shown when "display" button is held for 2 seconds

GSM Signal Strength

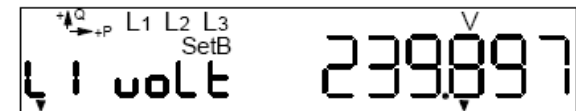


L1 Phase Current (RMS) (Range will change to kA for high CT Ratios)



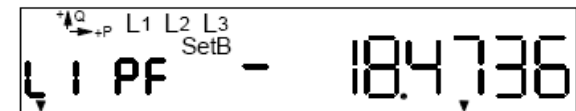
Followed by L2 and L3 Current

L1 Phase Voltage (RMS)



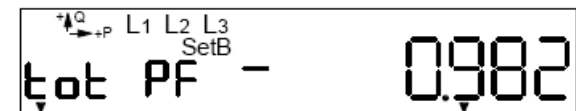
Followed by L2 and L3 Volts

Phase Angle (degree's) (for PF take Cos of the Angle) (-ve for Lag, +ve for Lead)



Followed by L2 and L3 Phase Angles

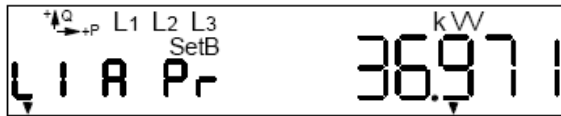
Overall Power Factor (-ve for Lag, +ve for Lead)



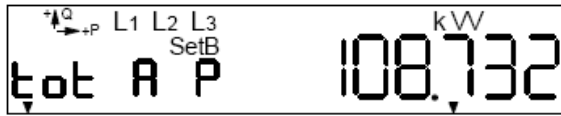
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3.3 SET B - SUPPLEMENTARY INFORMATION

Active Power
(+P for Import, -P for Export) (Range will change to MW for high CT ratios)



Overall Active Power
(+P for Import, -P for Export) (Range will change to MW for high CT ratios)



Followed by L2 and L3 Active Powers

Reactive Power
(+Q for Import, -P for Export) (Range will change to MVar for high CT ratios)



Followed by L2 and L3 Reactive Powers

Overall Reactive Power
(+Q for Import, -P for Export) (Range will change to MVar for high CT ratios)



3.3 SET B - CONTINUED

Apparent Power
(+P for Import, -P for Export) (Range will change to MVA for high CT ratios)

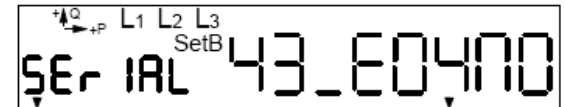


Followed by L2 and L3 Apparent Powers

Overall Apparent Power
(+P for Import, -P for Export) (Range will change to MVA for high CT ratios)



Meter Serial Number
(e.g. E04M00443 note the M actually displayed as n)



Alarm Status Flags



FLAG LETTER

FLAG LETTER	ALARM NAME
E	Analog Reference Failure
S	Asymmetric Power
V	Voltage Tolerance Error
F	VT Failure
R	Incorrect Phase Resolution
C	Clock Failure
M	Reverse Power
L	Calibration Data Lost
H	Modem Failure
X	Ram Failure or LCD Failure
Y	Program Flash Failure
Z	Data Flash Failure
N	Pulsing Output Overflow
D	Battery Failure
U	Tamper

Indicates the start of the Alarm Codes which scrolls across the display

A test display will appear as the last display before reverting back to GSM signal strength

Always remember to hold display button for another 2 seconds to revert back to "Set A"



FOR MORE INFORMATION, CONTACT:

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