

Meter Read Sheet

EDMI Mk10D (5 MIN)

Description:

- Three phase direct connect electricity meter (1-3 phases connected based on site requirements)
- Automatic billing reset on the first day of the month.
- LED1: 1 pulse = 10 watt hour export (to customer)
- LED2: 1 pulse = 10 watt hour import (from customer)

Display Set A

The registers can be scrolled through using the Display Select button. It is found on the front plate to the right side of the meter. By simply pushing the button you will cause the screen display to scroll forward through the registers on display Set A.

LCD Designator	Description	Example
DATE	Standard Current Date Time: This screen alternates between date and time. Date: DD.MM.YY Time: hh:mm:ss	
001	Exported kwh Total: Total energy consumed by the customer.	
040	Imported kwh Total: Total energy generated by the customer.	
TEST	Display Test: This tests all the segments on the display.	

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Display Set B

Display Set B can be activated by holding the Display Select button continually for 2 seconds. Each register can then be read using the select button. (Not normally used for billing). Display set B contains meter specific details such as serial numbers, instantaneous voltage, current and power consumption as shown in the table below. (These are given as primary values and may be of use for plant management where energy management systems are not installed.)

LCD Designator	Description	Example
SIGNAL	Signal Strength: Received signal strength at the modem.	<div style="text-align: right; margin-bottom: 5px;">L1 L2 L3 SetB ®</div>
IPADD	IP Address: The local IP address of the modem.	<div style="text-align: right; margin-bottom: 5px;">L1 L2 L3 SetB ®</div>
PID	Program ID: This describes the configuration of the meter.	<div style="text-align: right; margin-bottom: 5px;">L1 L2 L3 SetB ®</div>
SER NO	Serial Number: This is the meters serial number.	<div style="text-align: right; margin-bottom: 5px;">L1 L2 L3 SetB ®</div>
P NO	Plant Number: The plant number given to the meter.	<div style="text-align: right; margin-bottom: 5px;">L1 L2 L3 SetB ®</div>
MODBUS	Modbus ID: Modbus identifier of the meter when connected to a Modbus network.	<div style="text-align: right; margin-bottom: 5px;">L1 L2 L3 SetB ®</div>
LEFA1	Latched Errors: This screen shows any errors that the meter has detected.	<div style="text-align: right; margin-bottom: 5px;">L1 L2 L3 SetB ®</div>

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L EFA2	Latched Errors: This is a second screen for any errors that the meter has detected.	<p>Latched Errors: This is a second screen for any errors that the meter has detected.</p>
CT PRI	CT Primary Ratio: CT ratio multiplier, divisor is usually 5.	<p>CT Primary Ratio: CT ratio multiplier, divisor is usually 5.</p>
VT PRI	VT Primary Ratio: VT ratio multiplier, the Mk10A usually 1:1.	<p>VT Primary Ratio: VT ratio multiplier, the Mk10A usually 1:1.</p>
PO 1	Pulse Output 1: The energy per pulse on pulse output 1 LED.	<p>Pulse Output 1: The energy per pulse on pulse output 1 LED.</p>
PO 2	Pulse Output 2: The energy per pulse on pulse output 2 LED.	<p>Pulse Output 2: The energy per pulse on pulse output 2 LED.</p>
VOLT A	Voltage: Phase A voltage.	<p>Voltage: Phase A voltage.</p>
VOLT B	Voltage: Phase B voltage.	<p>Voltage: Phase B voltage.</p>
VOLT C	Voltage: Phase C voltage.	<p>Voltage: Phase C voltage.</p>
AMPS A	Amperage: Total current through Phase A element.	<p>Amperage: Total current through Phase A element.</p>

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AMPS B	Amperage: Total current through Phase B element.	$\overset{L1}{A} \overset{L2}{b} \overset{L3}{}$ $\overset{SetB}{}$	A 0.126
AMPS C	Amperage: Total current through Phase C element.	$\overset{L1}{A} \overset{L2}{c} \overset{L3}{}$ $\overset{SetB}{}$	A 0.127
INST A	Instantaneous Power: The power being consumed or generated (negative) on Phase A.	$\overset{L1}{A} \overset{L2}{A} \overset{L3}{}$ $\overset{SetB}{}$	kW 0.0184
INST B	Instantaneous Power: The power being consumed or generated (negative) on Phase B.	$\overset{L1}{A} \overset{L2}{b} \overset{L3}{}$ $\overset{SetB}{}$	kW 0.0183
INST C	Instantaneous Power: The power being consumed or generated (negative) on Phase C.	$\overset{L1}{A} \overset{L2}{c} \overset{L3}{}$ $\overset{SetB}{}$	kW 0.0182
ANG A	Phase Angle: The phase angle between volts and current on Phase A.	$\overset{L1}{A} \overset{L2}{A} \overset{L3}{}$ $\overset{SetB}{}$	15.6958
ANG B	Phase Angle: The phase angle between volts and current on Phase B.	$\overset{L1}{A} \overset{L2}{b} \overset{L3}{}$ $\overset{SetB}{}$	15.9586
ANG C	Phase Angle: The phase angle between volts and current on Phase C.	$\overset{L1}{A} \overset{L2}{c} \overset{L3}{}$ $\overset{SetB}{}$	15.5869
FIRM	Firmware Version: The firmware version that the meter is running on.	$\overset{L1}{F} \overset{L2}{I} \overset{L3}{R} \overset{L4}{M}$ $\overset{SetB}{}$	1.63,