

Viewing meter data

Viewing meter data from the display

Voltage average, current average, and power factor average are displayed the first time a meter is powered up, after which the last viewed screen or locked (default) screen is displayed every time the meter is powered up.



Meters data screens

The meter screens are divided as per phase measurements, system measurements, demand measurements, energy measurements, and RTC / IO.

Meter data display screens

The screen menu items are listed below.

System measurements

Vavg	Voltage 3 phase average
kVA	Apparent power total
F	Frequency (Hz)
x1000	Multiplication factor
Iavg	Current 3 phase average
kW	Active power total
In	Neutral current
x1000	Multiplication factor
PF	Power factor total
kVAR	Reactive power total
Iunb	Current unbalance
x1000	Multiplication factor

Phase measurements

V _{L-N}	Voltage Line to neutral		V1	V2	V3
V _{L-L}	Voltage Line to Line		V12	V23	V31
I	Current		A1	A2	A3
kVA	Apparent Power		kVA1	kVA2	kVA3
kW	Active Power		kW1	kW2	kW3
kVAR	Reactive Power		kVAR1	kVAR2	kVAR3
PF	Power factor	- : Leading PF	PF1	PF2	PF3
		+: Lagging PF			
V _{THD}	Voltage THD %		V1 _{THD}	V2 _{THD}	V3 _{THD}
I _{THD}	Current THD %		A1 _{THD}	A2 _{THD}	A3 _{THD}

Energy measurements

kWh	Active energy - Import / Delivered (+)
	Active energy - Export / Received (-)
kVAh	Apparent energy - Import / Delivered (+)
	Apparent energy - Export / Received (-)
kVARh	Reactive energy - Import / Delivered (+)
	Reactive energy - Export / Received (-)

Demand measurements

DM	Last Demand	kVA	kVAR	kW	I _{avg}
PrsDM	Present/ Raising demand	kVA	kVAR	kW	I _{avg}
PrdDM	Predictive demand	kVA	kVAR	kW	I _{avg}
MD	Max demand	kVA	kVAR	kW	I _{avg}

RTC / IO

RTC	Date and time	Year / Date / Hour
IO (Applicable only for PM2130)		

Using ION Setup to view or modify configuration data

You can use ION Setup to view or modify the meter setup parameters.

Using software to view meter data

There are different software systems and methods you can use to access or display the meter data. This can range from using a simple Modbus register interface to read stored values in the meter's registers, to viewing intelligent information from the meter through an energy management system.