PULSE OUTPUT DESCRIPTION

Pulse Output	Type	Description	Pulse width
POP1	Fixed 1000 Kwh Pulses	Kwh	0.05 to 2 sec
POP2	Configurable 1/10/100/1000 Pulses	Kwh - Total/IP/EP kvarh - Total/IP/EP	0.05 to 2 sec

FRONT PANEL DESCRIPTION

FOR EM2M-1P-100A-C

KEY PRESS	ONLINE PAGE DESCRIPTION	
Press	1st screen	Displays Total Active Energy
	2nd screen	Displays Import Active Energy
	3rd screen	Displays Export Active Energy
	4th screen	Displays Total Reactive Energy
	5th screen	Displays Import Reactive Energy
	6th screen	Displays Export Reactive Energy
	7th screen	Displays Apparent Energy
	8th screen	Displays Active Power
	9th screen	Displays Reactive Power
	10th screen	Displays Apparent Power
	11th screen	Displays Voltage L-N
	12th screen	Displays Current
	13th screen	Displays Power Factor
	14th screen	Displays Frequency
	15th screen	Displays Max Demand Active Power
	16th screen	Displays Max Demand Reactive Power
	17th screen	Displays Max Demand Apparent Power

AUTOMATIC / MANUAL

Long press scroll key to toggle between Automatic/Manual mode.

MODBUS REGISTER ADDRESSES LIST

Readable parameters for Communication [Length (Register) : 2; Data Structure : Float]

Address	Hex Address	Parameter
30001	0x01	Total Active Energy
30003	0x03	Import Active Energy
30005	0x05	Export Active Energy
30007	0x07	Total Reactive Energy
30009	0x09	Import Reactive Energy
30011	0x0B	Export Reactive Energy
30013	0x0D	Apparent Energy
30015	0x0F	Active Power
30017	0x11	Reactive Power
30019	0x13	Apparent Power
30021	0x15	Voltage L-N
30023	0x17	Current
30025	0x19	Power Factor
30027	0x1B	Frequency
30029	0x1D	Max Demand Active Power
30031	0x1F	Max Demand Reactive Power
30033	0x21	Max Demand Apparent Power

Energy rollover counter addresses : Energy rollover counter will increment when energy is roll over from 99999.99 to 0.
[Data Structure: Integer]

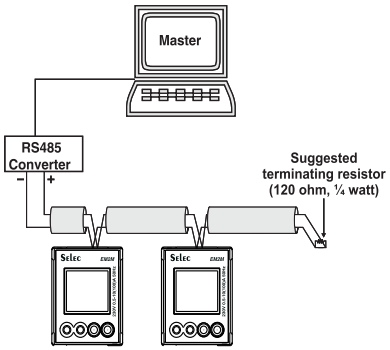
30150	0x96	Total Kwh
30151	0x97	Import Kwh
30152	0x98	Export Kwh
30153	0x99	Total Kvarh
30154	0x9A	Import Kvarh
30155	0x9B	Export Kvarh
30156	0x9C	Kvah

MODBUS REGISTER ADDRESSES LIST

Readable/Writable parameters for Communication

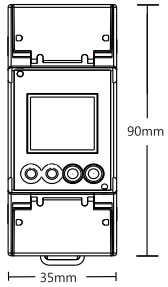
Address	Hex Address	Parameter	Range		Length (Register)	Data Structure
			Min value	**Max value**		
40001	0x01	Password	0	9998	1	Integer
			Min value	**Max value**		
40002	0x02	Slave ID	001	255	1	Integer
			Value	**Meaning**		
40005	0x05	Demand interval method	0x0000	Sliding	1	Integer
			0x0001	Fixed	1	Integer
			Min value	**Max value**		
40006	0x06	Demand interval length	01	30	1	Integer
			Min value	**Max value**		
40007	0x07	Demand interval duration	01	30	1	Integer
			Value	**Meaning**		
40008	0x08	POP	0x0000	Total wh	1	Integer
			0x0001	Total varh	1	Integer
			0x0002	IP wh	1	Integer
			0x0003	EP wh	1	Integer
			0x0004	IP varh	1	Integer
			0x0005	EP varh	1	Integer
			Value	**Meaning**		
40009	0x09	Pulse weight	0x0000	1	1	Integer
			0x0001	10	1	Integer
			0x0002	100	1	Integer
			0x0003	1000	1	Integer
			Min value	**Max value**		
40010	0x0A	Pulse duration	0.05	2.00	1	Integer
			Value	**Meaning**		
40011	0x0B	Baud rate (bps)	0	9600	1	Integer
			1	19200	1	Integer
			Value	**Meaning**		
40012	0x0C	Parity	0X0000	None	1	Integer
			0X0001	Odd	1	Integer
			0x0002	Even	1	Integer
			Value	**Meaning**		
40013	0x0D	Stop bit	0x0001	1	1	Integer
			0x0002	2	1	Integer
			Min value	**Max value**		
40014	0x0E	Backlight OFF (sec.)	1	7200	1	Integer
40015	0x0F	Factory Default	1	Set to factory setting range	1	Integer
40041	0x29	Reset kWh	1	Reset Active energy	1	Integer
40042	0x2A	Reset kVArh	1	Reset Rective energy	1	Integer
40043	0x2B	Reset Kvah	1	Reset Apparent energy	1	Integer
40044	0x2C	Reset Max Demand	1	Reset Max demand power	1	Integer

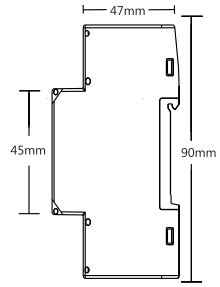
CONNECTION DIAGRAM FOR COMMUNICATION



Contact sales for PC based monitoring software to communicate with the meters.

MECHANICAL DIMENSIONS

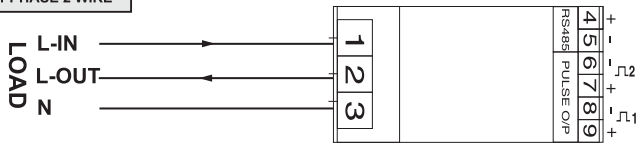




TERMINAL CONNECTIONS

TYPICAL WIRING DIAGRAM

1 PHASE 2 WIRE



(Specifications subject to change as development is a continuous process.)

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