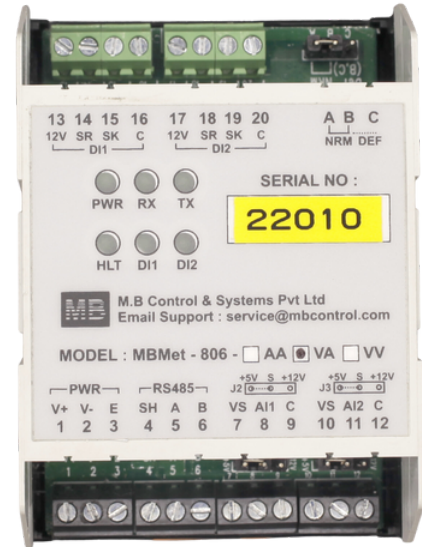


Smart Interface

Overview

The MBMet-806 Smart Interface series is a Powerful Smart Interface for Field Measurement Signals. It is used to convert Field signals such as Voltage, Digital or Current into Modbus RTU Protocol over RS-485. The Smart Interface comes with 2 Digital Inputs, and a combination of 2 Analog Inputs (Voltage 0 – 5 VDC, Current 4 – 20 mA).



Benefits and Features:

- Easy Configuration with Status ,Counter, Rain Gauge, Wind speed sensor input.
- 16 bits ADC resolution.
- Sampling rate 10Hz.
- Isolated RS485 serial communication.
- Isolated (1.5KV) two wire RS485 Modbus RTU Communication
- High accuracy.
- LED Indication for Power Input, CPU health, Digital Input, RS485 Rx and Tx .
- Configurable Baud Rates upto 19,200

Technical Specifications

Sr. No	Parameter		Specification
1	Power Supply	Model- MBMet-806	9-32VDC , 0.5W
2	Digital input Channel 1 & 2	0-1000Hz	Can be configured for the following: i) Status input ii) Counter input iii) Rain Gauge input iv) Wind speed sensor input
3	Digital input Sensor Excitation power supply		+12V DC (max 60mA) for each digital input channel. Short circuit protected.
4	Analog input 1 & 2	0-5.0VDC	ADC resolution- 16 bits Sampling rate – 5 Hz Accuracy – 0.1%
		4-20mA	
5	LED Indications		i) Power Input LED ii) CPU Health LED iii) Digital Input status iv) RS485 Rx and Tx LED
6	Analog input Sensor Excitation power supply		Selectable between +5V or +12V DC (max 50mA) for each analog input individually. Short circuit protected.

Communication Parameters

7	Communication	Isolated (1.5KV) two wire RS485 Modbus RTU
8	Output data format	32 bits signed integer and 32 bits floating point. (Without any scaling factor)
9	Baud rates	Configurable 4200, 9600 and 19200

General Specifications

10	Ingress protection	IP-20
11	Housing Material	ABS Plastic
12	Dimension (L X B X D)	51 mm X 74 mm X 50 mm DIN Rail mounted
13	Weight	100 gm approx.

Ordering String

Sr. No.	Input Parameters	MBMet-806-AA	MBMet-806-VA	MBMet-806-VV
1	Digital input Channel 1	-	-	-
2	Digital input Channel 2	-	-	-
3	Analog input 1	4-20mA	0-5VDC	0-5VDC
4	Analog input 2	4-20mA	4-20mA	0-5VDC

Our extensive lineup of "MBMet" Sensors forms the cornerstone of advanced Weather Monitoring. With unwavering accuracy and cutting-edge technology, these sensors empower industries such as solar, meteorology, and agriculture to make informed decisions. From Solar Irradiation to Atmospheric Data, each sensor offers precise insights crucial for optimizing performance, enhancing safety, and ensuring efficiency in the face of ever-changing weather conditions

SEE ALSO

MBMet 110 Wind Direction Sensor

MBMet 500 Solar Irradiance Sensor

MBMet 701 Soiling Monitoring Station

MBMet 800 PV Module Temperature Sensor

MBMet 901 Air Temperature, Humidity & Pressure Sensor

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