

Modbus/RS485 Data to Cloud Gateway and Remote Controlling

Applications

Suitable for all use cases where you need to read Modbus data from Meters, Sensors, Industrial equipment and send it to cloud/server application. On-board Relay to switch-on/off the connections.

- Modbus/RS485 data reading from devices such as Energy Meter, Flow Meters, Level sensors etc.
- Multiple Energy Meter support.
- Cloud Gateway (One-way Communication).
- AC Voltage Sensing (Used at setup where DG Sets are used for power backup)
- Onboard Relays for disconnecting connection

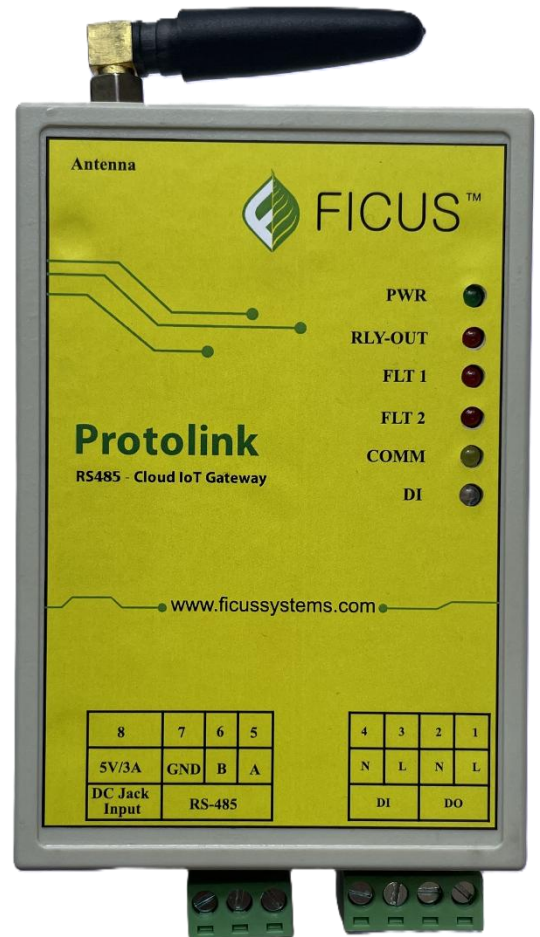
Industry

- Metering Industry
- Energy Monitoring
- Water: Flow & Level
- Field Devices with Modbus/RS485 interface

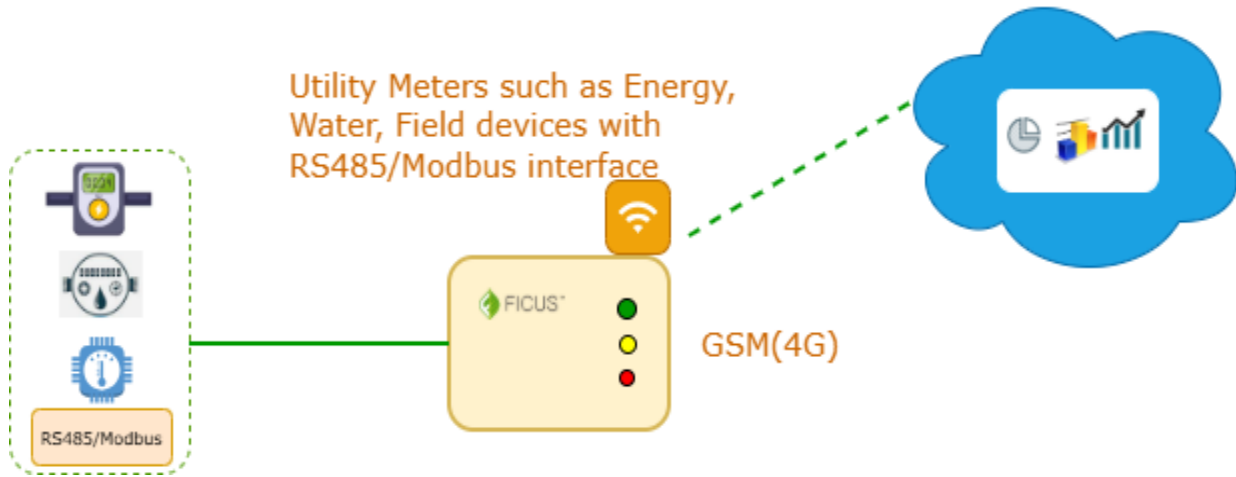
Sales inquiry

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Application Architecture



Device Specifications

IOs

- Modbus over RS485
- AC Voltage Sensing (Digital Input)
- Digital Output (On-board Relay)

- Mounting: DIN Rail
- IP Protection: IP 20
- Enclosure: Polycarbonate
- Color: Light Grey

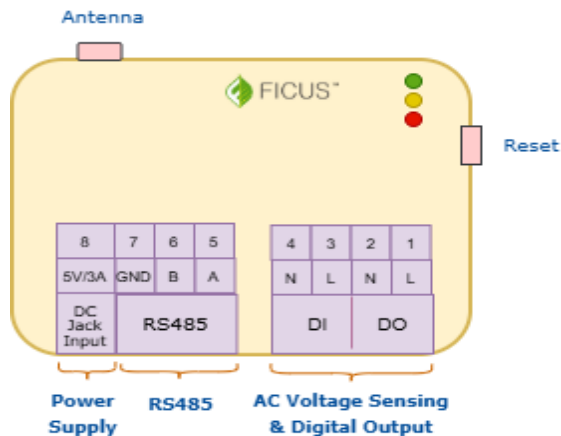
Others

- LED Indications: 3
- Operating Temp: From -10°C to 60°C
- Humidity: 0% - 90% non-condensing

Power & Communication

- DC Input: 12/24VDC
- Communication: GSM
- Supports MQTT and HTTP(S) protocol

Wiring Diagram



Device Configuration

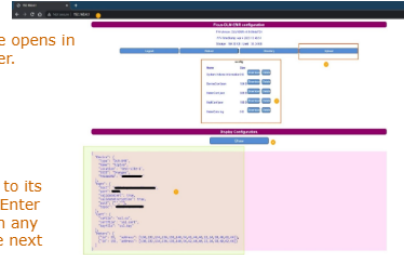
The device has on-board hosted configuration webpage. It can be configured to connect with different types of industrial devices. Enter required details such as mapping tables for input current, voltage, server URLs, credentials, and other details in the configuration file. Upload the file and reboot the device. For more details, contact us.

Configuration file and the log files can be accessed via Configuration Webpage hosted on the device.



To Open Configuration Web page of the device, connect to its WiFi Hotspot from a mobile, laptop or any other device. Enter credentials to connect to the Wi-Fi. Open 192.168.4.1 on any browser. The configuration web page opens shown in the next image.

Configuration Page opens in the browser.



Download Data/Log File from Configuration Webpage

Configuration File can be used for:

1. To configure device parameters such as set/trigger points, Mapping tables, program variables etc.
2. Download Data/Log files.

Configuration File Template

```

1 DeviceType = "ELECTRONIC CONTROLLER";
2 DeviceName = "REGULATION CONTROLLER";
3 DeviceLocation = "MALL 1";
4 Machine_model = "M 500 M";
5 Machine_serial_number = "90790311";
6 CRANK_TIME_SEC = 5;
7 LOGGING_FREQUENCY_SEC = 30;
8 LCD_CONTRAST = 3;
9 LOW_FPS_LIMIT_FPS = 1;
10 FULL_SCALE_AD = 7;
11 FULL_SCALE_AD = 10;
12 FULL_SCALE_AD = 7;
13 FULL_SCALE_AD = 7;
14 FULL_SCALE_AD = 7;
15 FULL_SCALE_AD = 7;
16 FULL_SCALE_AD = 150;
17 FULL_SCALE_AD = 7;
18 ALARM_DURATION_SEC = 30;
19 RPM_CLEAR_FACTOR = 0.25;
20 MAX_RPM = 0;
21 MAX_RPM = 50;
22 RPM_CLEAR_FACTOR = 1.0;
23 UPPER_RPM_LIMIT = 1500;
24 LOWER_RPM_LIMIT = 1250;
25 RUNNING_THRESHOLD_LIMIT = 1000;
26 AVERAGE_SAMPLE_SIZE = 600;
27 AMP_TABLE_ROW_SIZE = 15;
28 AMP_TABLE_ROW_SIZE = 21;
    
```

	A	B	C	D	E	F	G	H	I	J	K	L
1	Date	RPM	oil_pre	cook	batt	ADP	ADT	operati	warning_a	total	fuel	consumed
2	14:43:45;1	0	0	0	0	0	0	0	IGN_DET	0		
3	14:43:51;1	0	0	46	0	0.62	36.4	21.45	IGN_DET	0		
4	14:43:56;1	0	0	46	0	0.59	35.2	21.45	IGN_DET	0		
5	14:44:01;1	0	0.92	46	0	0.6	36.2	21.45	IGN_DET	0		
6	14:44:14;1	0	0	0	0	0	0	0	IGN_DET	0		
7	14:44:19;1	0	0	0	25	0.63	36.7	0	IGN_DET	0		
8	14:44:24;1	0	0	0	25	0.56	36.4	0	IGN_DET	0		
9	14:44:29;1	0	0	0	25	0.62	37.4	0	IGN_DET	0		
10	14:44:34;1	0	0.92	0	26	0.6	36.5	0	IGN_DET	0		
11	14:44:40;1	0	0.92	0	26	0.6	35.4	0	IGN_DET	0		
12	14:44:45;1	0	0.92	46	26	0.6	36.2	0	IGN_DET	0		
13	14:44:50;1	0	0.92	46	26	0.63	36	0	IGN_DET	0		

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