

Multipurpose Data Acquisition Device

Analog, Digital, & Modbus Data to Cloud Gateway

Applications

Suitable for all use cases where you need to read Analog data such as current, voltage or resistive values from the sensors or industrial units and send it to cloud. Similarly, digital data too can be ready from industrial equipment and send it to the cloud/server application via Wi-Fi or GSM.

- Analog or digital data reading from devices such as sensors (all types), Flow Meters, industrial units etc.
- Cloud Gateway (One-way Communication).

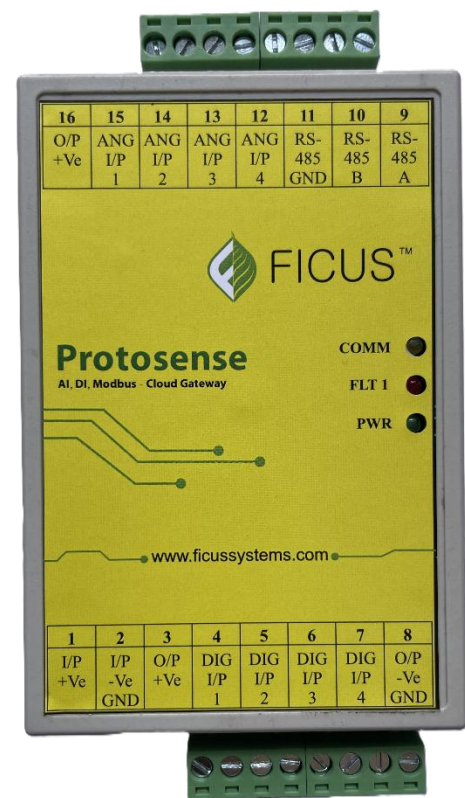
Industry

- Process Industry
- Manufacturing
- Scientific Use Cases
- Utilities etc.

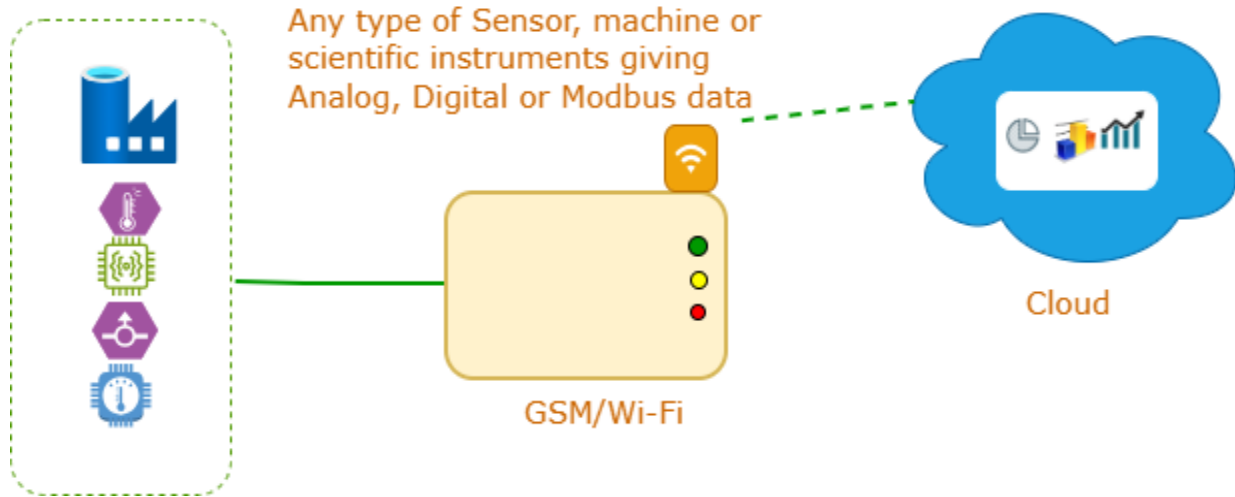
Sales inquiry

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Application Architecture



Device Specifications

IOs

- Analog Input: 4 (Current/Voltage/Resistive)
- Digital Input: 4
- Modbus over RS485

- Humidity: 0% - 90% non-condensing
- Mounting: DIN Rail
- IP Protection: IP 20
- Enclosure: Polycarbonate
- Color: Light Grey

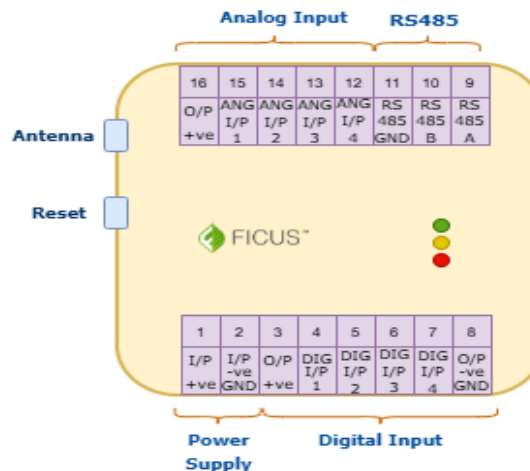
Others

- LED Indications: 3
- Operating Temp: From -10°C to 60°C

Power & Communication

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

Wiring Diagram



Device Configuration

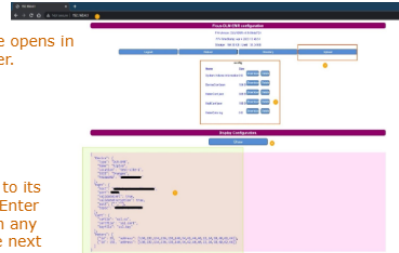
The device has on-board hosted configuration webpage. It can be configured to connect with different types of industrial devices. Enter required details such as mapping tables for input current, voltage, server URLs, credentials, and other details in the configuration file. Upload the file and reboot 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 = "DRILL 1";
4 Machine_Model = "DM 500 M";
5 Machine_serial_number = "037033313";
6 CRANK_TIME_SEC = 5;
7 LOGGING_FREQUENCY_SEC = 30;
8 LOG_COMPRESS();
9 LOW_PRESS_HIGH_PRESS=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_CORRECTION_FACTOR = 0.25;
20 MAX_ADP = 20.0;
21 MAX_ADP = 50;
22 ADV_BLEED_RANGE = 1.0;
23 UPPER_RPM_LIMIT = 1000;
24 LOWER_RPM_LIMIT = 1000;
25 ENGINE_SHUTDOWN_LIMIT = 1000;
26 AVERAGE_SAMPLE_SIZE = 600;
27 ADV_TABLE_ROW_SIZE = 19;
28 ADV_TABLE_ROW_SIZE = 21;
    
```

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

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