

ProtoSense

Analog Data - Cloud Gateway Digital Data - Cloud Gateway (One-way Communication)

Analog/Digital Data Acquisition With Modbus/R485 Interface

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Features

How it Works

The device has on-board hosted configuration webpage. It can 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.

Industry

- Process Industry
- Manufacturing
- Scientific use cases
- Others



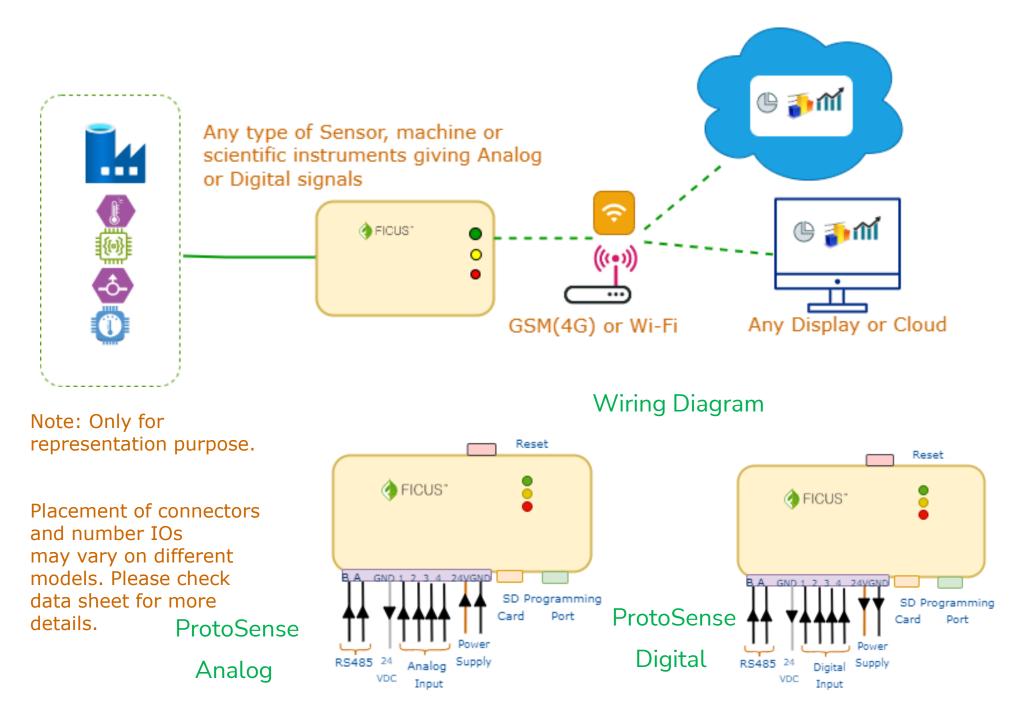
Applications

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 4G module.

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



Application Architecture





Specifications

los ProtoSense - Analog

- Analog Input: 4
- RS485/Modbus

los ProtoSense - Digital

- Digital Input: 4
- RS485/Modbus

Local Storage

- Onboard SD card (8/16GB)
- Data logging on SD card

Power

• DC Input: 24VDC

Configuration

 Device hosted configuration web page (more details in next pages)

Communication

- Cloud Communication
 - Wi-Fi
 - GSM Supports all types of 4G SIM
- Supports Modbus, MQTT, HTTP/S protocol

Other Specifications

- RTC Support
- Server time/NTP time synchronization
- Configurable Time zone
- LED Indications: 3
- Operating Temp: From -10°C to 70°C
- Humidity: 0% 90% non-condensing
- Mounting: DIN Rail & Wall mounting with Screw
- IP Protection: Two form factors,
 - IP 20
- Enclosure: Polycarbonate Transparent Cover and ABS Opaque Base
- Color: Light Grey (RAL 7035



Configuration Web Page



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

DeviceType = "ELECTONICS CONTROLLER";
DeviceName -"REGULATION CONTROLLER";
DeviceLocation ="TRAIL 1";
Machine model ="DM 500 H";
Machine serial number -"B07800313";
CRANK TIME SEC -5;
LOGGING FREQUENCY SEC -30;
LCD CONTRAST=3;
LOW FRE HIGH FRE EN-1:
FULL SCALE AD -7;
FULL SCALE A1 -40;
FULL SCALE A2 -71
FULL SCALE A3 -7;
FULL SCALE A4 -7;
FULL SCALE A5 -7;
FULL SCALE A6 -150;
FULL SCALE A7 =7;
ALARM DURATION SEC = 30;
RFM CHANGE FACTOR =0.25;
MAX ADF =20.0;
MAX_ARF=2.50;
ADP BLEED RANGE =1.0;
UFFER RFM LIMIT = 1900;
LOWER RFM LIMIT = 1250;
ENGINE SHUTDOWN LIMIT =1000;
AVERAGE SAMPLE SIZE = 600;
ARP TABLE ROW SIZE =19;
ADP TABLE ROW SIZE = 21;

	Download Data/Log File from Configuration Webpage												
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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			