Protogate

IoT Edge Device, Modbus-Server/Cloud Gateway, Data Logger

Applications

Suitable for all use cases where you need to read Modbus data from Industrial equipment such as Chillers, HVAC, Machines and send it to cloud/server.

- Cloud/Server Gateway (One-way Communication).
- Data Logging on onboard SD Card (Optional)

Industry

- Utilities Monitoring
- Process Monitoring
- Machine Monitoring
- Others

Sales inquiry

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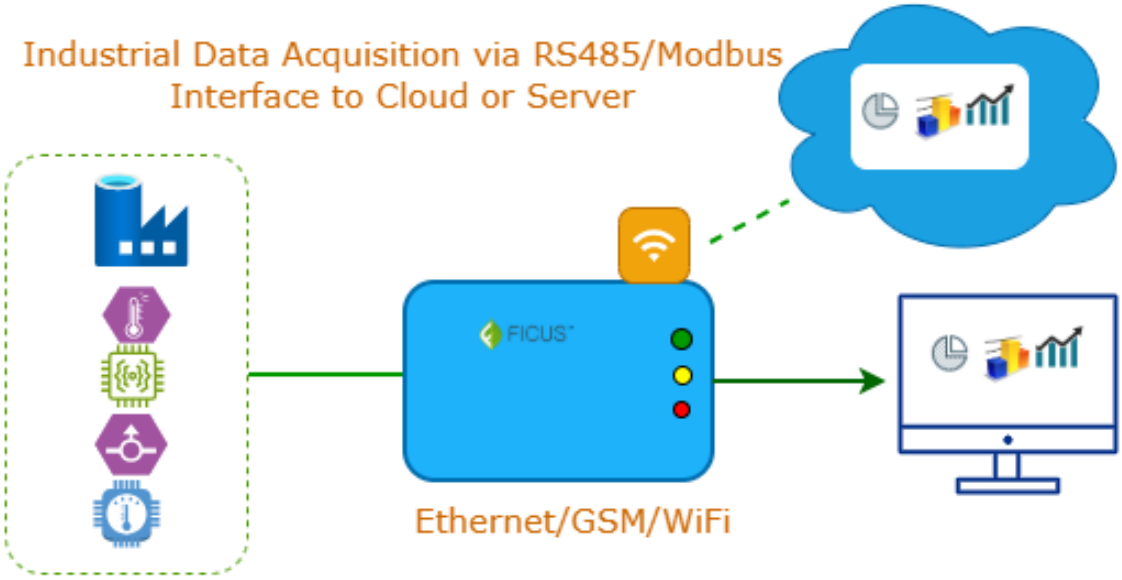
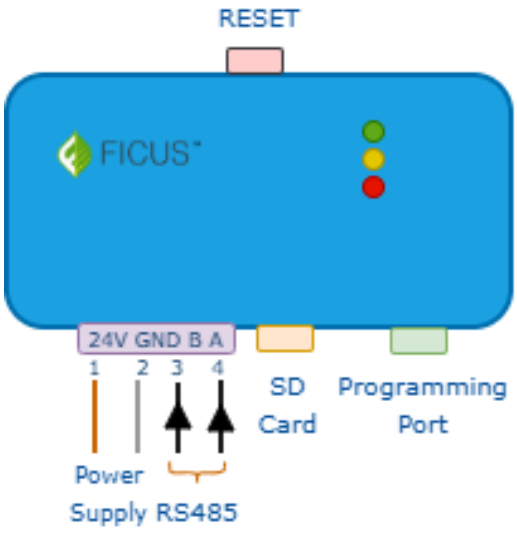
FICUS™ Protogate

Application Architecture



Device Specifications

- Power Supply: 12/24v DC supply
- Operating Temp: From 0°C to 65°C
- Humidity: 0% - 90% non-Condensing
- Degree of protection: IP 20
- Enclosure: Polycarbonate Transparent Cover and ABS Opaque Base
- Color: Grey
- Mounting: DIN Rail/Table Top
- Reverse Polarity Protection
- SD Card (Optional)
- Supports MQTT, HTTP/S protocol
- LED Indications: 3
- Device hosted configuration web page. (more details in next pages)



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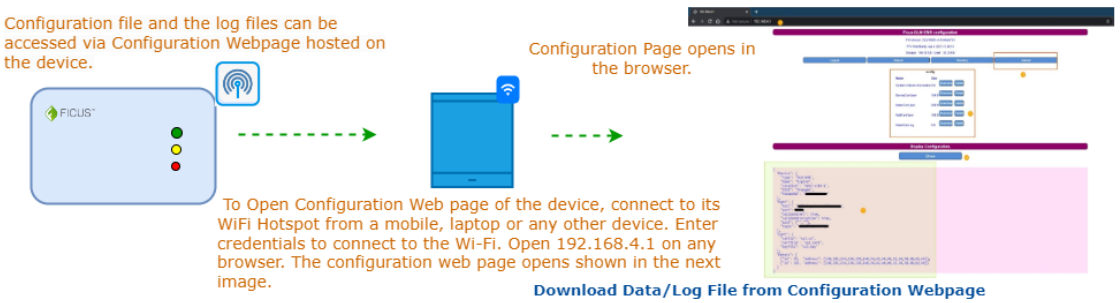
Device Configuration

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 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 W";
Machine_serial_number ="3078888313";
CRANK_TIME_SEC =5;
LOGGING_FREQUENCY_SEC =30;
LCD_CONTRAST=3;
LOW_PRE_HIGH_PRE_EN=1;
FULL_SCALE_A0 =7;
FULL_SCALE_A1 =60;
FULL_SCALE_A2 =7;
FULL_SCALE_A3 =7;
FULL_SCALE_A4 =7;
FULL_SCALE_A5 =7;
FULL_SCALE_A6 =150;
FULL_SCALE_A7 =7;
ALARM_DURATION_SEC = 30;
RPM_CHANGE_FACTOR =0.25;
MAX_ADP =20.0;
MAX_ARP=2.50;
ADP_BLEED_RANGE =1.0;
UPPER_RPM_LIMIT = 1900;
LOWER_RPM_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

File Home Insert Page Layout Formulas Data Review View

A1 | Date

	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;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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