

MachLogic - mini

Multipurpose IIoT Device

Analog Input
Digital Input
Digital Output
Cloud Gateway functionality
(Two-way Communication)

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Features

How it Works

The device can be programmed for multiple industrial use cases. It has on-board hosted configuration webpage. 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

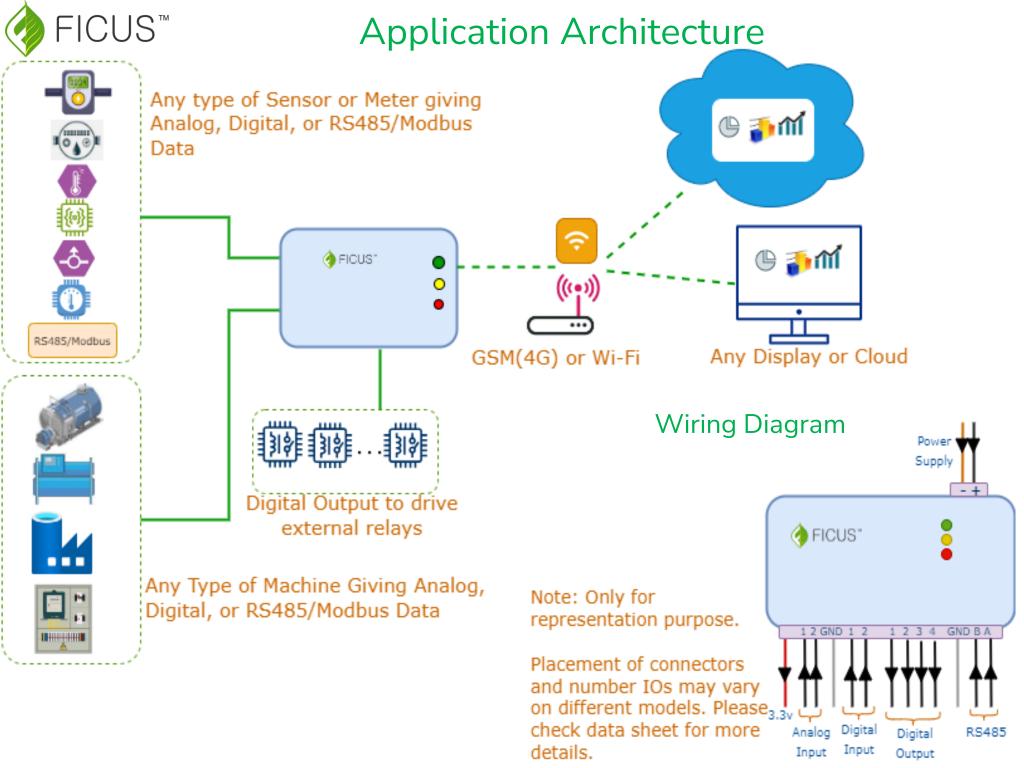
- Manufacturing
- Engineering
- Sugar
- Pharmaceutical
- Others



Applications

Suitable for all use cases where you need to read industrial data, communicate data or control your industrial equipment remotely from cloud/server application.

- Cloud Gateway (Two-way Communication).
- Data retrieval (through Modbus/RS485) from devices such as Energy Meter, Flow Meters etc.
- Data retrieval (through Modbus/RS485) from PLCS, Chillers or Boilers.
- Analog or Digital data acquisition from industrial units & machines such as Compressors, Pumps, Motors, Boom Barriers, Gates etc.
- Data Logging.





Specifications

IOs

- Modbus over RS485
- Analog Input: 2
 - Current (4 mA 20 mA)
 - Resistive
 - Voltage
- Digital Input: 2
 - Potential Free
- Digital Output: 4
 - Common Positive

Local Storage

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

Power

- Available in two form factors
 - AC Input: 230VAC
 - DC Input: 24VDC
- Support for battery backup (Optional)

Display

Type: OLED (Optional)

Configuration

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

Communication

- Cloud Communication
 - Wi-Fi
 - GSM Supports all types of 4G SIM
- Ethernet Support(Optional)
- Supports Bluetooth
- Open Interface to connect LoRa modules
- Supports MQTT and HTTP(S) protocol

Other Specifications

- RTC Support
- Server time/NTP time synchronization
- Configurable Time zone
- LED Indications: 3
- Operating Temp: From $-10^{\circ}C$ to $70^{\circ}C$
- Humidity: 0% 90% non-condensing
- Mounting: Wall mounting with Screw
- IP Protection: Two form factors,
 - IP 66
 - IP 20
- Enclosure: Polycarbonate Transparent Cover and ABS Opaque Base
- Color: Light Grey (RAL 7035)



FIGUS*

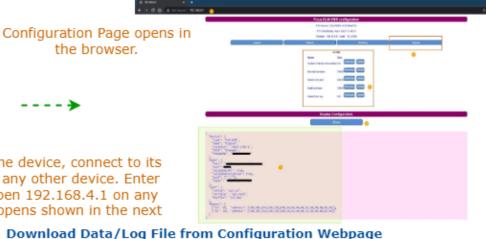
Configuration Web Page

the browser.





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



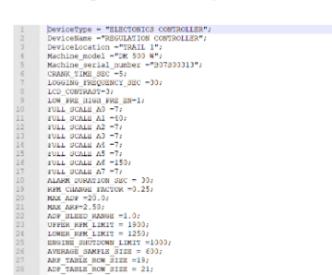
Configuration File can be used for:

1. To configure device parameters such as set/trigger points, Mapping tables, program variables etc.

image.

2. Download Data/Log files.

Configuration File Template



□ 5 × ♂ × =											
	File H	ome	Inse	rt	Page	Layou	t F	ormulas	s Data	Revie	ew View
A1		· : >		< 🗸		fx	Date				
	Α	В	С	D	Е	F	G	Н	1	J K	L
1	Date	RPM	oil_pre	coola	batt_	ADP	ADT	operati	warning_a	total_fue	
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	