

MachLogic - Pro

Multipurpose IIoT Device



8 Channel Analog Input
8 Channel Digital Input
8 Channel Digital Output
Modbus Reader
CAN bus Reader
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 Industry
- Pharmaceutical
- Others



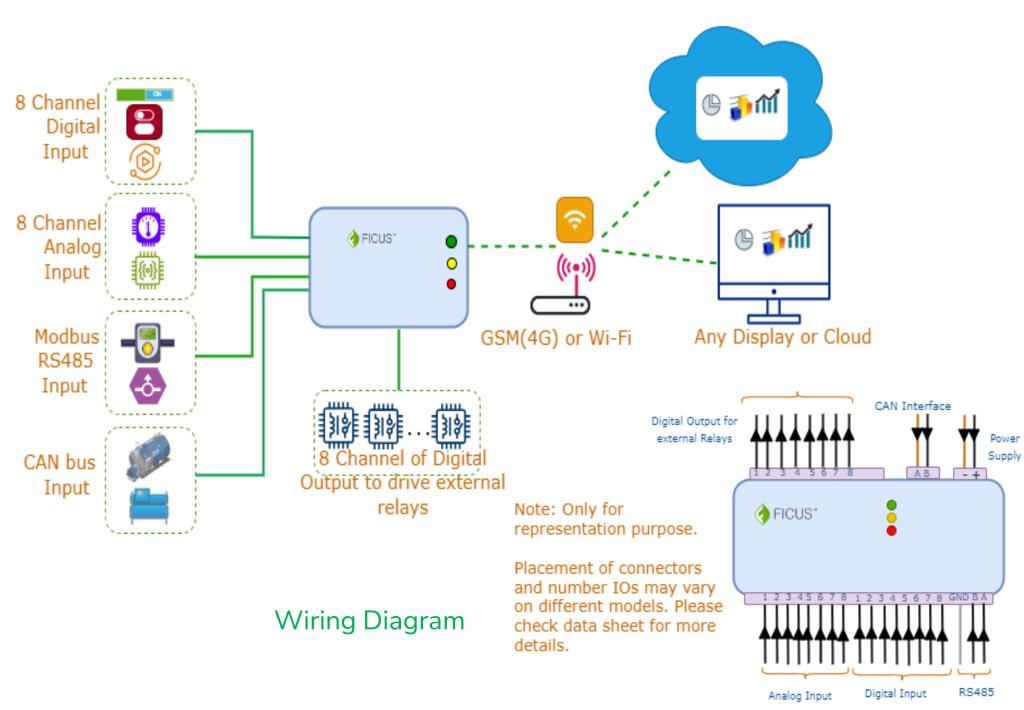
Applications

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, PLCs, Chillers, Boilers etc.
- CAN bus interface to read data from devices operating on CAN Bus Protocol such as engines and compressors.
- Analog or Digital data acquisition from industrial units & machines such as Compressors, Pumps, Motors, Boom Barriers, Gates etc.
- Data Logging and Cloud gateway.



Application Architecture





Specifications

IOs

- Modbus over RS485
- CAN bus
- Analog Input: 8
 - Current (4 mA 20 mA)
 - Resistive
 - Voltage
- Digital Input: 8
 - Potential Free
- Digital Output: 8
 - Common Positive

Local Storage

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

Power

DC Input: 24VDC

Display

Type: Graphic display (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 external 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*

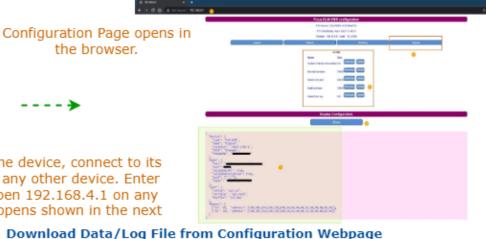
Configuration Web Page

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



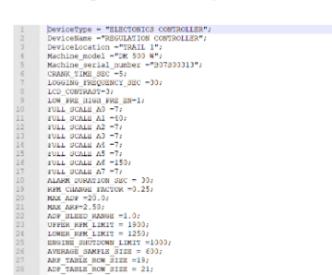
Configuration File can be used for:

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 | | ome | Insert | | Page Layou | | t Formulas | | s Data | Revi | ew View |
| A1 | | · : > | | < 🗸 | | fx | Date | | | | |
| | Α | В | С | D | Е | F | G | Н | ı | J K | L |
| 1 | Date | RPM | oil_pre | coola | batt_ | ADP | ADT | operati | warning_a | total_fue | _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 | |