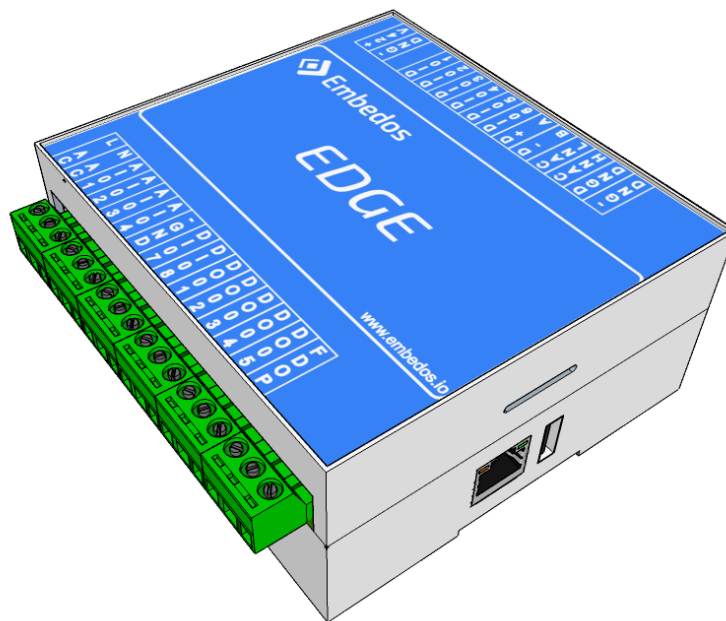


Datalogger User Manual

Embedos Datalogger User Manual



December 2020

Version 1.0.0

Document Revisions

Date	Version Number	Document Changes
08-12-2020	1.0.0	Initial draft

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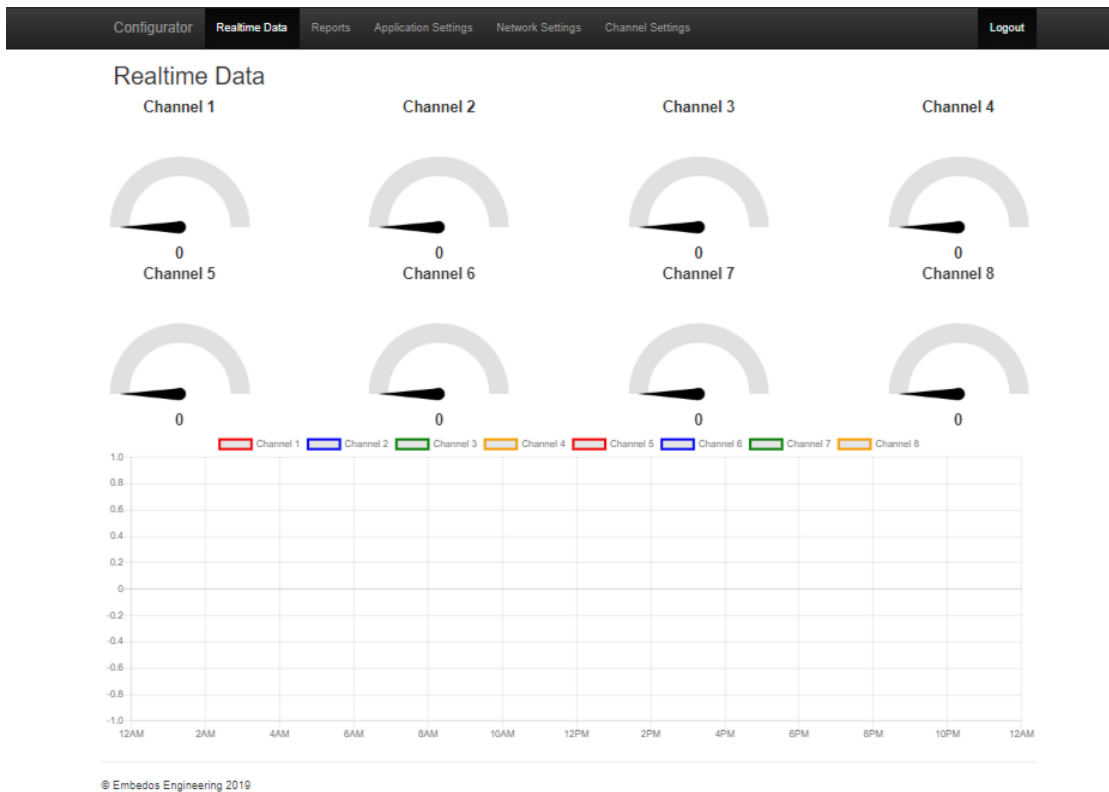
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1. Introduction

- The HUL project includes 1 Embedos Master device and 2 Embedos Slave devices
- The master and slaves communicate with each other using RS485 – Modbus protocol
- The Embedos master device and one slave has 4 analog inputs enabled and one slave has 1 analog input enabled.
- The data connected to the Embedos analog interfaces can then be seen on the Embedos Local Dashboard.
- Widgets are in the form of gauges and real time charts displayed on Real Time page.
- Analog channels can be calibrated using Channel Settings page.

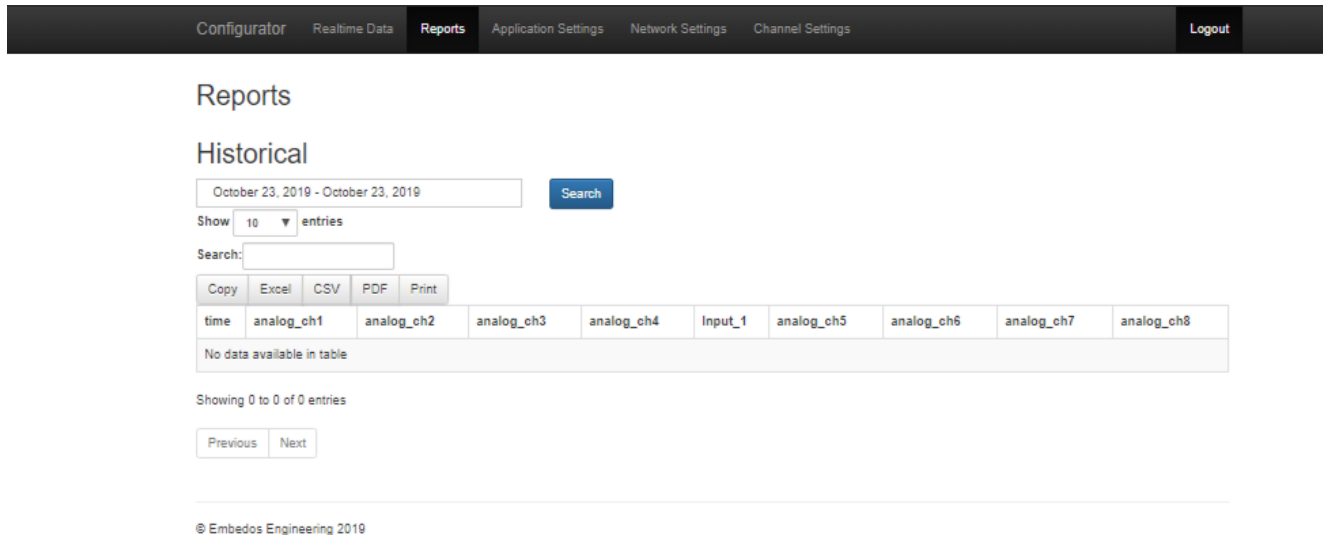
2. Connection Diagram

- 4 analog inputs connected to master device are represented by the first 4 gauges. – Channel 1,2,3,4.
- 4 analog inputs connected to expansion device 1 are represented by the next 4 gauges – Channel 5,6,7,8
- 1 analog input connected to expansion device 2 are represented by the next gauge - Channel 9
- Channel 10 and 11 can be connected to any two other slaves like VFD.(There slave id has to be entered in configuration file)



4. Reports

- Select the time duration or set a custom range for reports using the convenient drop down selector.
- The table that will be populated accordingly and can be navigated through the page buttons below.
- Download the data shown on the table using the convenient buttons in Excel, CSV or PDF formats directly. Or print data directly using the print button.
- The copy button copies the data to the clipboard for pasting as text.



Configurator Realtime Data **Reports** Application Settings Network Settings Channel Settings Logout

Reports

Historical

October 23, 2019 - October 23, 2019

Show 10 entries

Search:

time	analog_ch1	analog_ch2	analog_ch3	analog_ch4	Input_1	analog_ch5	analog_ch6	analog_ch7	analog_ch8
No data available in table									

Showing 0 to 0 of 0 entries

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5. Channel Settings

- Sensor Minimum : Enter the value of the sensor corresponding to 4mA . eg : 0mBAR
- Sensor Maximum : Enter the value of the sensor corresponding to 20mA eg:100mBAR
- To add calibration for an input press on ADD button
- To edit calibration for an input press on EDIT button

Channel Configuration

Show entries Search:

channel_number	sensor_max	sensor_min	scale_factor	offset
1	1000	0	0	1000
2	10000000	0	352	-1533984
3	1000	0	0	1000
6	1000	0	0	1000
7	1000	0	0	1000

Showing 1 to 5 of 5 entries Previous **1** Next

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6. Application Settings

- **General Settings**

1. **Interface Type:**

- a. RTU: Modbus RS485 Protocol
- b. TCP: Modbus TCP Protocol

2. **SMS Mode:**

- a. Sim: SMS sent through a sim card.
- b. Gateway: SMS sent through internet connection.

3. **Slave IP:**

- a. Enter your Modbus TCP IP address. (In case of Interface Type as RTU, Slave IP option will be greyed out)

4. **Baud:**

- a. Enter Baud Rate of Device (In case of Interface Type as TCP, Baud Option will be greyed out)

5. **Slave Port:**

- a. Enter your Modbus TCP port. (In case of Interface Type as RTU, Slave port Option will be greyed out)

6. **Poll Interval:**

- a. Set the data logging rate. (seconds)

7. **Slave ID:**

- a. Set the Modbus RTU slave ID. (In case of Interface Type as TCP, Slave ID will be greyed out)

