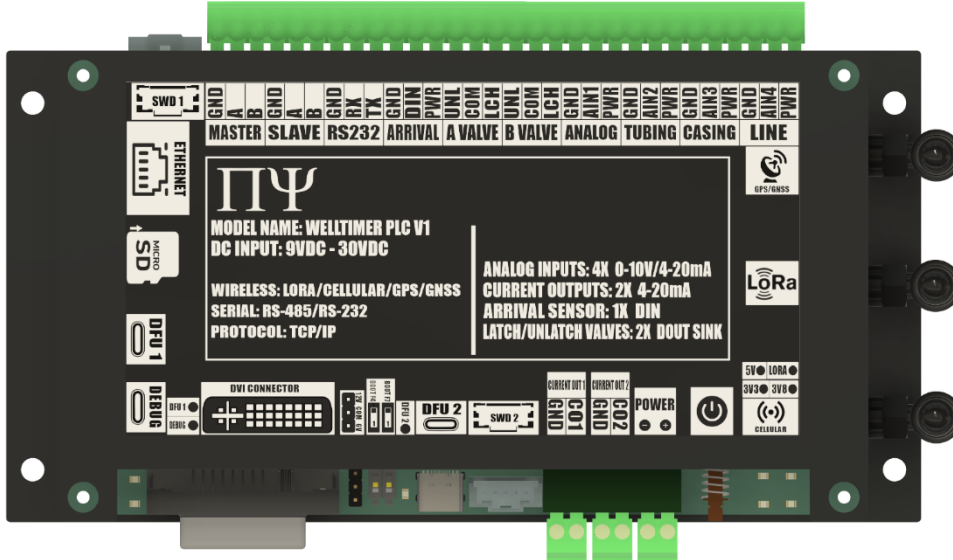


PYDAQ D400: Multichannel Wireless Programmable RTU



Overview

PYDAQ D400 is a 4-channel Analog Input, 4-channel Voltage Output and 4-Current Outputs Wireless RTU. The Device is designed to interface to any 4-20mA and 0-10V sensors interface and Actuator Interface. This versatile device allows for efficient data acquisition and control, providing compatibility with a wide range of sensor and actuator interfaces. Raw data collected from the sensors can be processed by PytroAI Edge Computing Engine embedded into the device. Processed data can be accessed via several wired communication options using RS-232 and RS-485 Modbus RTU and using Modbus TCP over Ethernet.

Specifications

Power	Power Supply Voltage	9-30V
	Power Type	DC-in
	Current Draw	150mA@Typical 3A@Peak
Mechanical	Dimensions	152.05" L x 87.2" W x 1.6" H
	Enclosure	ABS Plastic
	IP Rating	IP 64
Environment	Operating Temperature	-40°C to 85°C
	Operating Humidity	5%~95% Relative Humidity, non-condensing
I/O Ports	Analog Inputs	4x Channel: 0-10V, 4-20mA
	Voltage Outputs	4x Channel: 0-10V Voltage Output
	Current Outputs	4x Channel: 4-20mA Current Outputs
Wired Communication	RS-232	1x Port: Modbus RTU Master/Slave
	RS-485	1x Port: Modbus RTU Master/Slave
	Ethernet	1x Port: Modbus TCP Master/Slave
Wireless Communication	Radio	900MHz ISM Protocol: Star Topology
	Cellular	LTE 4G Protocol: MQTT/HTTPS
	Bluetooth	2.4GHz ISM Protocol: BLE
Certification	FCC, IC	

Features

I/O Analog/Digital Ports

- 4x Analog Inputs
- 4x Voltage Outputs
- 4x Current Outputs

Wired Com Ports

- RS-232 Modbus RTU
- Dual RS-485 Modbus RTU
- Ethernet Modbus TCP

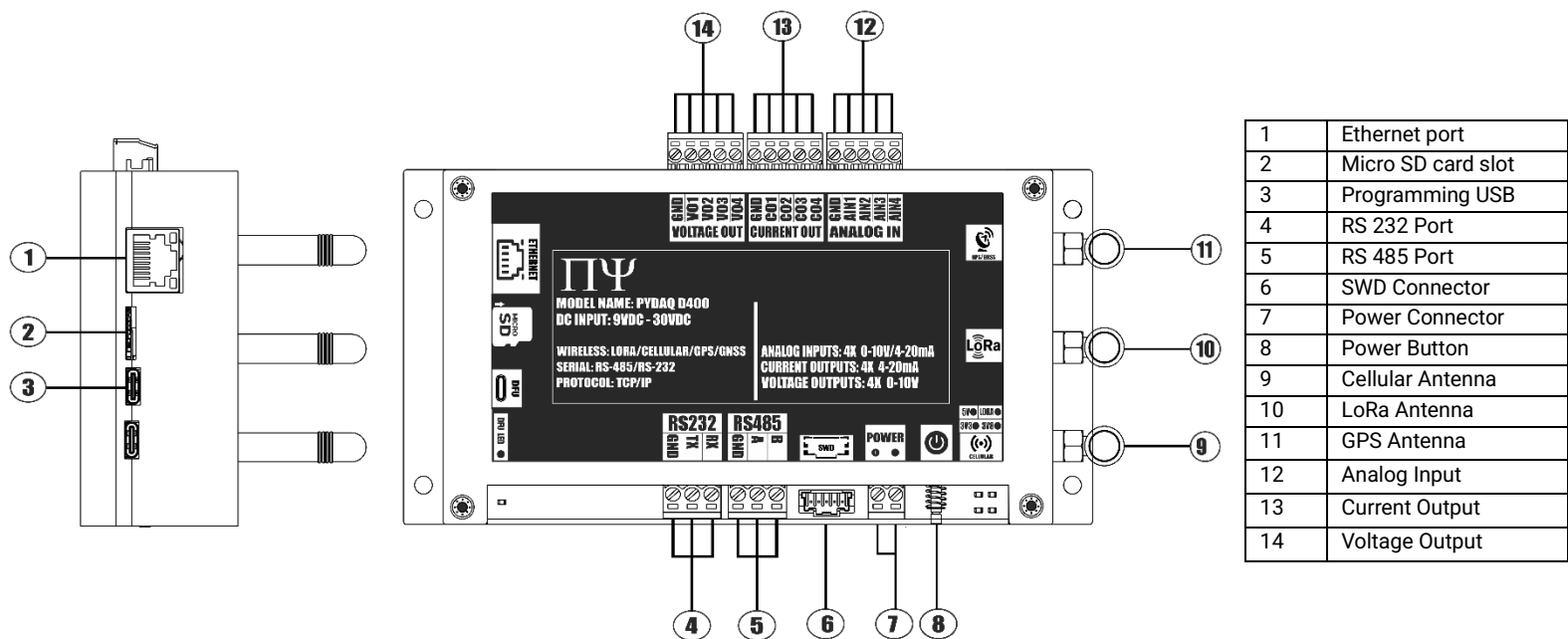
Wireless Communication

- Radio ISM 900MHz RTU
- Cellular LTE 4G MQTT/HTTP

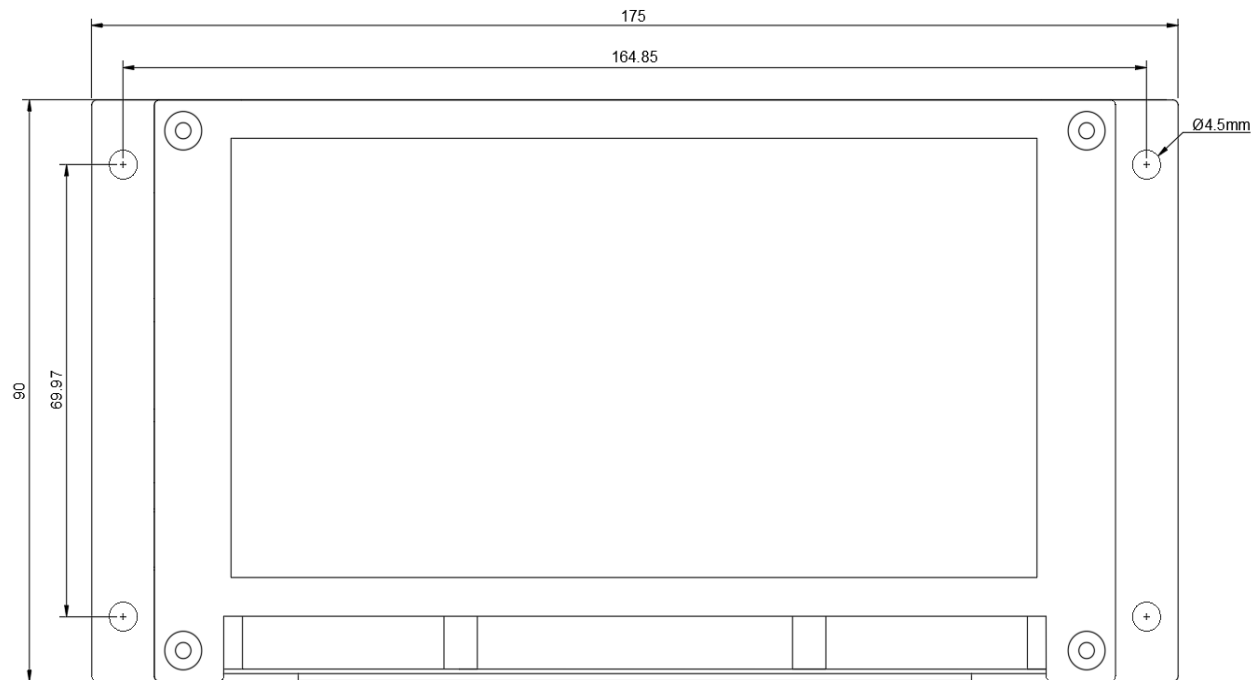
BLE Mobile Applications

- iOS Mobile App using BLE

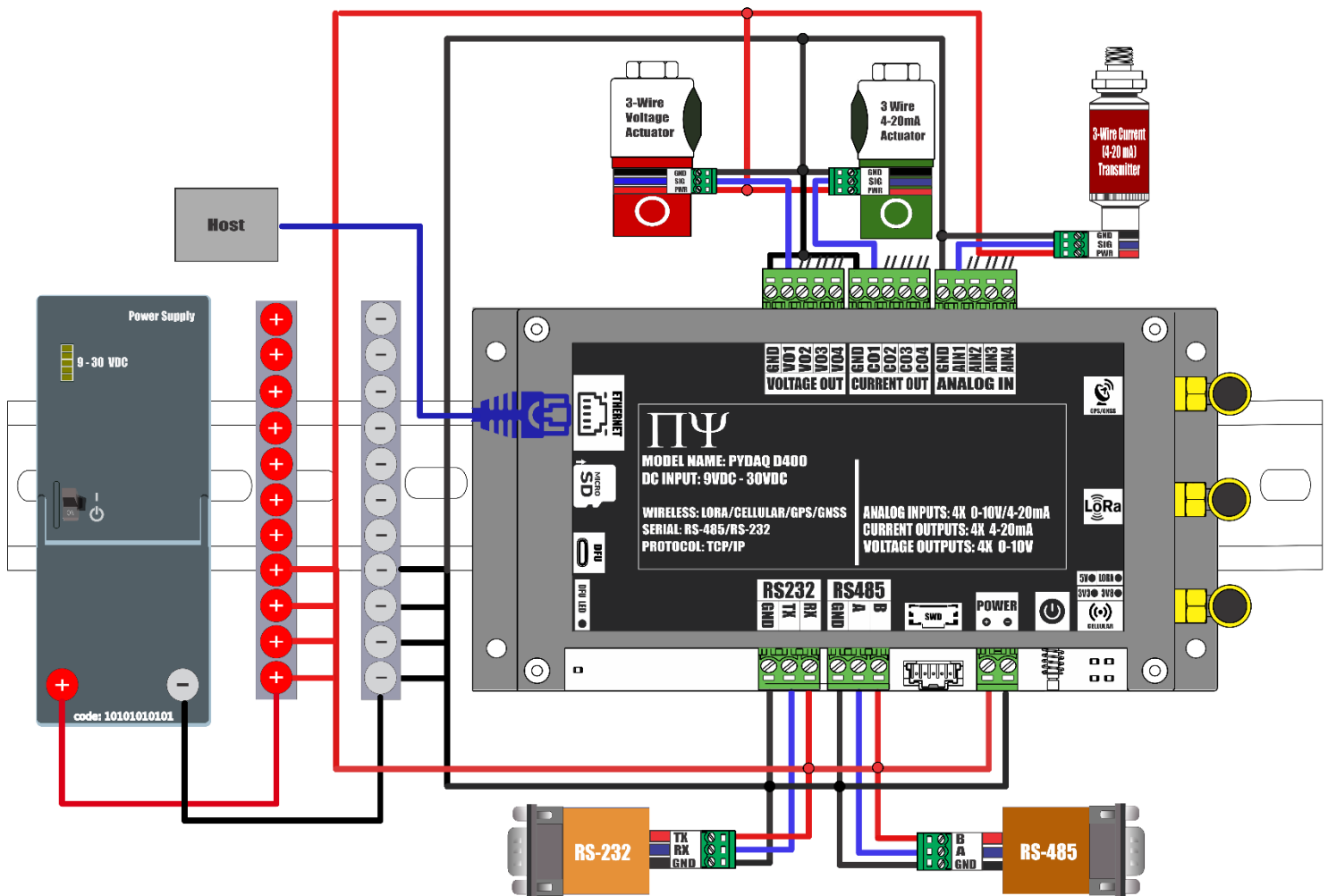
Pinout Diagram



Mechanical Diagram



Wiring Diagram



Software and Documentation	
Document	Software Configuration
Pydaq D400 Operation Manual	Pydaq D400 is configured using a browser based AI assisted tool called PytroAI. PytroAI is accessed by going to https://build.s2c.io/?username=demo The various application notes provide a detailed walkthrough for configuring the PYDAQ D400.
Pydaq D400 Software Manual	
Pydaq D400 Point-2-Point Radio Bridge Application Note	
Pydaq D400 Point-2-MultiPoint Radio Bridge Application Note	
Pydaq D400 Tank Level Monitoring Application Note	
Pydaq D400 Modbus RTU Master Application Note	
Pydaq D400 Modbus RTU Slave Application Note	
Pydaq D400 Modbus TCP Master Application Note	
Pydaq D400 Modbus TCP Slave Application Note	

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