Model 1702 Core Module

- Multi-protocol data acquisition tool
- Supports analog & digital transducers
- Supports numerous instrument outputs
- Encrypted low-energy Bluetooth connectivity for data transfer
- Ultra-low power consumption
- Flexible powering options including battery powered
- Compatible with various cloud platforms including GTW's Cloud, Predix IO or any other custom cloud platforms
- Plug & play

The Model 1702 is designed to be a highly adaptable data acquisition tool enabling collection, storage and transmission of time stamped data from varying sources and protocols.

The 1702 is a low power consumption device which could be battery powered. This device can be integrated with larger DAQ networks via a multi-drop RS-485 BUS or Bluetooth to a GTW model 1703 or other gateway module for cloud connectivity.

SPECIFICATIONS

System	Microcontroller: Cortex M4F Clock Speed: 68MHz Storage: MicroSD Card Battery backed Real Time Clock
Power	Requirement: 9-34 VDC or 5VDC or 3.3VDC [DC Power Supply or Battery] Power Consumption : 1mA @ 24V, 2mA @ 12V, 5mA @ 3.3V, 5mA @ 5V, 0.05mA @ Sleep Protection: Reverse Polarity, ESD/Voltage Spike & Fuse protections
I/O	1 x Bluetooth Low Energy (BLE) 1 x I²C 1 x RS-485 (ASCII or Modbus) 4 x 0~5V 16bit ADC with 100K SPS 1 x 0~3.3V 12bit ADC with 200K SPS 5 x GPIO
Operating Environment	(-4 to 158)°F & (5 to 95)% Relative Humidity, non-condensing
Cloud	Network Connectivity: RS-485 or Bluetooth (Low Energy) Platform Compatibility: GTWs Hx Monitoring System, Predix IO, or custom cloud services

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