
Industrial Telemetry Acquisition Device With Integrated Cellular Modem



Description

The Remote Industries Asset Gateway 2™ (AG2) is an industrial data acquisition and telemetry device. Every 60 seconds, the AG2 transmits real-time data readings of each wired sensor via an internal cellular modem. This data is available on the Remote Industries website providing: charting, analysis features, data sharing, and alarms. Alarms can dispatch by SMS text message, email, and automated phone call.

In addition to cellular telemetry, the AG2 device also records all sensor readings to a 16 GB SD card (included) every second.

The AG2 device has fifteen analog inputs. Each analog input will monitor, record, and transmit one industrial 4-20 mA current loop sensor reading. Typical sensors used with the AG2 device measure: pressure, differential pressure, electrical current, weight, flow rate, pH, liquid level, temperature, humidity, and distance.

The AG2 device has seven digital inputs. Each digital input will monitor, record, and transmit one on/off reading value. Typical readings indicate the position of a valve or the current state of a local alarm system. These inputs may also be used to monitor external relays or manual buttons and switches.

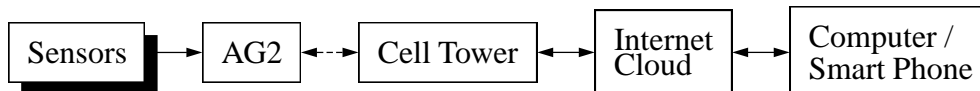
The AG2 device has two relay outputs. These outputs are controlled remotely from Remote Industries's Website. The outputs can be used to control signal towers, solenoid valves, and other on/off systems.

Features

- *Managed Cellular Telemetry*
- *Managed Alarms*
- *Updates Every 60 Seconds*
- *15 Analog Channels*
- *7 Digital Channels*
- *2 Relay Outputs*
- *Local SD Card Logging*

Monitoring Applications

- *Gas supply systems*
- *Gas mixer systems*
- *Waste water treatment*
- *Regulatory compliance*
- *Process supervision*



Specifications

General

Primary Power Range	8 to 30 VDC
Maximum Operating Current	400 mA @ 12 VDC 200 mA @ 24 VDC
Internal Fuse	1A 250V Slow TR5
Operating Temperature	-40 to 85 C (non-condensing atmosphere)
Environmental Rating	IP20
Mounting	DIN Rail

Cellular

Update Interval	60 seconds (default)
Type	CDMA or GSM
Antenna Connection	50 Ω SMA
Frequency	850 Mhz and 1900 Mhz (North America) 800 Mhz and 1950 Mhz (International)

Analog Inputs

Number of Channels	15
Input Range	0-25 mA
Resolution	12 bit (0-25 mA)
Termination Resistance	100 Ω
Maximum Allowable Current	30 mA

Digital Inputs

Number of Channels	7
Nominal Input Voltage	12 or 24 VDC
Maximum Upper Threshold	7 VDC
Maximum Lower Threshold	2 Volt
Input Impedance	10K Ω

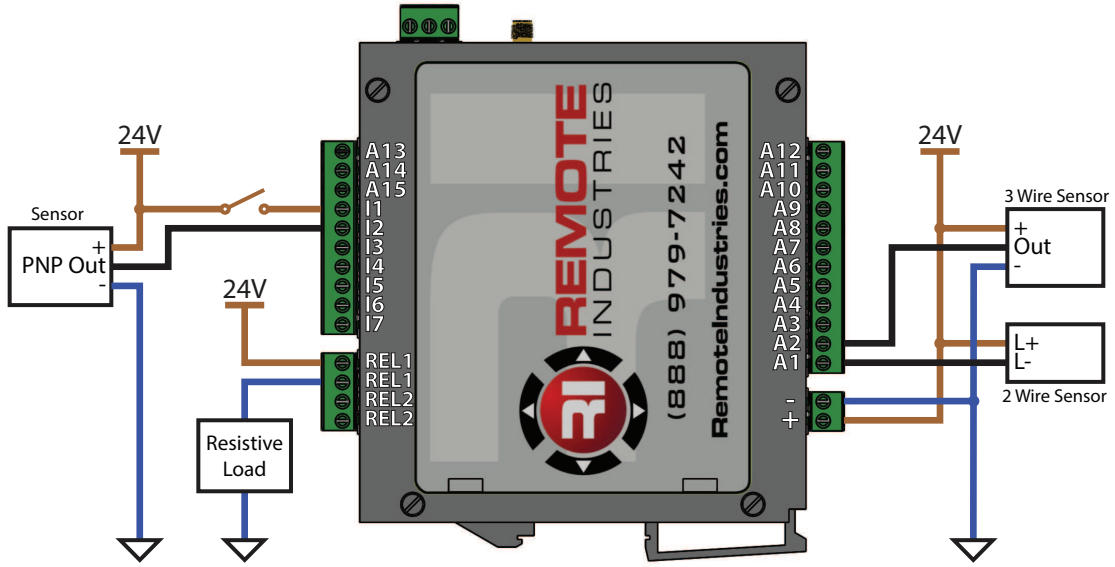
Relay Outputs

Number of Outputs	2
Type	Electro-Mechanical Contact
Max Output Current	3A @ 250 VAC, resistive 3A @ 30 VDC, resistive

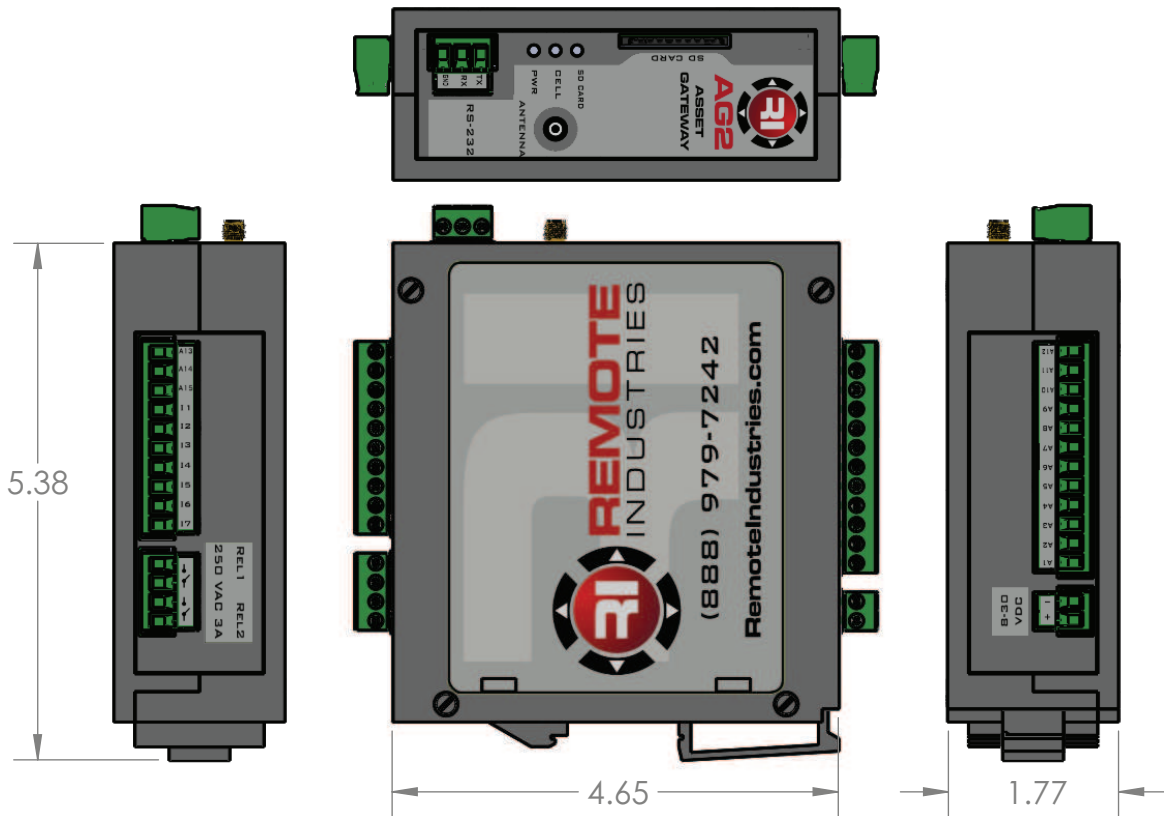
Local Logging

Media	MMC, SD, SDHC, SDXC Mini/Micro SD (with adapter)
Capacity	2 TB (FAT32) 2 GB (FAT16)
Logging Rate	All channels once per second

Wiring Example



Mechanical



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