DIN GATEWAY V2
Wireless 900Mhz Gateway with Integrated I/O

CONNECTIVITY TO WIRELESS & WIRED SENSORS
INTEGRATED ETHERNET
LONG RANGE OF 3+ MILES
BUILT-IN AUTOMATION
CLASS 1 DIVISION 2 CERTIFIED (PENDING)

FEATURES
- Modbus interface RS485 RTU or Modbus TCP
- Long range: 3+ miles
- Wired inputs/outputs: 2DI, 2DO, 3AI
- Manages outbound communications
- Low power consumption
- External high-gain omnidirectional antenna
- Supports wireless configuration of remote nodes and HART® devices via PACTware® or Radar Master
- Automatically configures as star or mesh network
- Easy to program internal logic for control applications

WIRELESS AND WIRED SENSOR CONNECTIVITY

DIMENSIONS

www.signal-fire.com | 140 Locke Drive, Suite B, Marlborough, MA 01752 USA | 978.212.2868
DIN GATEWAY V2
Wireless 900MHz Gateway with Integrated I/O

TECHNICAL SPECIFICATIONS

Operating Temp
-40°F to 185°F
-40°C to 85°C

Humidity
0% – 95% non-condensing

Power Requirements
6-36 VDC

Average Power Consumption
Modbus RS485 Version
25mA @ 12Vdc
16mA @ 24Vdc

Modbus TCP
85mA @ 12Vdc
50mA @ 24Vdc

Data Interface
RS-485 Modbus RTU, or Modbus-TCP, RS 232 for configuration. All readings are converted to Modbus registers and stored in the gateway.

Radio Power
500 mW

Antenna Type
Omnidirectional

Antenna Gain
• Panel Mounted: +2dB
• W Pole Type: +5dB

Receive Sensitivity
-105 dB

Frequency
902-928 MHz license-free ISM band compliant with FCC Part 15 and Industry Canada

Range
Up to 3 miles

Enclosure
• Powder coated metal
• Metal DIN connector

End Nodes
Up to 240 SignalFire end nodes

Safety Rating
Nonincendive, Class 1 Division 2 Groups C and D, T5 (pending)

Internal Diagnostics
Line voltage, signal strength, error conditions, internal event logging, Modbus communications

Inputs & Outputs
• Two (2) digital input
• Two (2) digital output (open collector pull down)
• Three (3) 1-5Vdc / 4-20mA analog input
• Expansion port for SignalFire Gateway output module (8 analog outputs / 2 relay outputs)

Weight
2 lbs (0.8kg)

STANDARD CONFIGURATION ORDER CODES

<table>
<thead>
<tr>
<th>INTERFACE</th>
<th>TOTAL I/O &amp; TYPES</th>
<th>ORDER CODE</th>
<th>ANTENNA OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 485</td>
<td>2 DI, 2DO, 3AI</td>
<td>GWDINV2-RS485</td>
<td>-EXT Panel Mounted RPSMA Antenna with 1 m Cable</td>
</tr>
<tr>
<td>Modbus-TCP</td>
<td>2 DI, 2DO, 3AI</td>
<td>GWDINV2-ENET</td>
<td>-ANT-WP-RPSMA-20 Remote mount antenna, 20ft RG58 cable, RP-SMA connector</td>
</tr>
<tr>
<td>RS 485 (with expansion port module)</td>
<td>2 DI, 4DO, 3AI, 8AO</td>
<td>GWDINV2-RS485/8AO2DO</td>
<td>-ANT-WP-N-20 Remote mount antenna, 20ft RG58 cable, N-Male connector</td>
</tr>
<tr>
<td>Modbus-TCP (with expansion port module)</td>
<td>2 DI, 4DO, 3AI, 8AO</td>
<td>GWDINV2-ENET/8AO2DO</td>
<td>-ANT-WP-RPSMA-30 Remote mount antenna, 30ft RG58 cable, RP-SMA connector</td>
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<td></td>
<td>-ANT-WP-N-30 Remote mount antenna, 30ft RG58 cable, N-Male connector</td>
</tr>
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</table>

Sample Order Code: GWDINV2-RS485/8AO2DO-ANT-WP-RPSMA-30