SOLAR POWERED
REPEATER NODE

USED TO EXTEND THE RANGE OF A SIGNALFIRE NETWORK

LONG RANGE RADIO

SELF-CONTAINED SOLAR POWER SYSTEM

FEATURES

• Automatically configures as part of the SignalFire mesh network
• Forwards messages from all SignalFire nodes
• 500mW radio with high gain antenna
• Optional N-Connector for remote mounted antenna
• Range up to 3 miles

• Internal rechargeable battery pack with integrated high efficiency solar charger
• Solar panel and all mounting hardware/brackets included
• Rugged design for demanding outdoor industrial environments
• Simple to install and maintain

TECHNICAL SPECIFICATIONS

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

Humidity
0% – 100% condensing

Power
Integrated solar system with 9Ah battery

Radio Power
500mW

Receive Sensitivity
-105dBm

Antenna
Omnidirectional, +5dBi gain

Security
AES 128bit Encryption

Radio Frequency
902-928 ISM FHSS, FCC part 15 Compliant

Range
3 miles

Internal Diagnostics
Battery voltage, signal strength

Enclosure
Aluminum, NEMA 4x

Weight
5 lbs (2.27 kg)
SOLAR POWERED
REPEATER NODE

DIMENSIONAL DRAWING

2.25” U-Bolts included for mounting to a vertical or horizontal pipe

STANDARD CONFIGURATION ORDER CODES

Repeater –  

<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STDANT</td>
<td>Integrated antenna</td>
</tr>
<tr>
<td>N20</td>
<td>Remote mount antenna, 20ft RG58 cable, N-Male connector</td>
</tr>
<tr>
<td>N30</td>
<td>Remote mount antenna, 30ft RG58 cable, N-Male connector</td>
</tr>
<tr>
<td>N50</td>
<td>Remote mount antenna, 50ft RG58 cable, N-Male connector</td>
</tr>
</tbody>
</table>