Z-PORT-COMM

WIRELESS RECEIVER WITH GPRS MODEM

- 2.4GHz Wireless Receiver with Relay and communications outputs
- Optional built-in GPRS modem for transmission of data.
- Relay outputs can be used for alarm setpoints or sensor failure indication
- Data logging option available

Description

The Z-PORT-COMM is a wall mounting wireless receiver unit which can be used with any of Industrial Interface’s range of wireless transmitters and routers.

It features either an RS232, RS485 or Ethernet communications so that all sensors values can be read using either Modbus TCP or Modbus RTU protocols.

It also features data logging and GPRS modem options, meaning the unit can store data which can then be uploaded to a webserver at programmable intervals.

The Z-PORT-COMM also has four relays which can be used as alarm contacts or sensor failure indicators.

As all the hardware & software is done in-house, custom configurations are easily achievable.

Multiple battery powered sensors transmit data at programmable intervals to a Z-PORT-WALL and then to an Ethernet or RS232/485 network.

Data from up to 256 nodes can be stored on one Z-PORT-WALL module and up to 15 networks can co-exist together.

Several different topologies are possible including Mesh self-healing wireless networks.

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### Technical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>16</td>
<td>24V</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Supply Current (mA)</td>
<td>100</td>
<td></td>
<td>120</td>
<td>24 V dc supply</td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td></td>
<td></td>
<td></td>
<td>10Base-T or 100Base-T</td>
</tr>
<tr>
<td>Connector</td>
<td></td>
<td>RJ45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protocols</td>
<td></td>
<td></td>
<td></td>
<td>TCP/IP UDP/IP others available</td>
</tr>
<tr>
<td>RS232 Data Rate</td>
<td></td>
<td>2400</td>
<td></td>
<td>300 to 115,200 baud</td>
</tr>
<tr>
<td>Data bits</td>
<td></td>
<td>7 or 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parity</td>
<td></td>
<td></td>
<td></td>
<td>Odd / even / none</td>
</tr>
<tr>
<td>Isolation voltage</td>
<td></td>
<td>1kV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Ambient</td>
<td></td>
<td>0°C</td>
<td>55°C</td>
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</tr>
<tr>
<td>Relative Humidity</td>
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<td>0%</td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td>Surge Voltage</td>
<td></td>
<td>2.5kV for 50µS</td>
<td></td>
<td>Transient of 10kV/Ms</td>
</tr>
<tr>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
<td>Local LED display can display sensor values in real engineering units and Z-PORT set-up information</td>
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</tbody>
</table>

### Installation Data

- **Mounting**: DIN Rail TS35
- **Orientation**: Any
- **Connections**: Screw Clamp with pressure plate
- **Conductor size**: 0.5-4.0mm
- **Insulation Stripping**: 12mm
- **Weight**: Approx 120g

### Connection Details

1. Power Supply -ve
2. Power Supply +ve
3. Relay 1 Common
4. Relay 1 N.C
5. Relay 1 N.O
6. Relay 2 Common
7. Relay 2 N.C
8. Relay 2 N.O
9. Relay 3 Common
10. Relay 3 N.C
11. Relay 3 N.O

### Ordering Information

- **Please Supply**: Z-PORT-COMM
- **Power Supply**: 24 Vdc
- **Options**: Specify Communications Port required, Data logging & GPRS modem options

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