

# Z-TEMP

## Wireless Temperature and Relative Humidity Transmitter

- Measures Ambient Temperature and Relative Humidity
- High accuracy, low cost unit
- Choice of enclosure types
- Long battery life
- User selectable update rates
- ZigBee Wireless Protocol



### Description

The Z-TEMP wireless ambient temperature and humidity transmitter has been designed to operate with the range of ZigBee wireless instruments designed and manufactured by Industrial Interface.

Either ambient temperature alone or both temperature and humidity measurements can be specified. Typically the unit transmits the measured values back to a Z-PORT receiver which can be connected to an Ethernet or RS232/485 communications network or GPRS mobile data network.

The unit is specially designed to maximise battery life and in a typical application the battery life can be up to five years.

A version including CO2 measurement and data logging is also available, see the Z-TEMP-CO2

Two mounting head styles are available, an industrial wall or ceiling mounting unit or a commercial style version.

### Enclosure Styles



|                              |                      |
|------------------------------|----------------------|
| <b>Style</b>                 | Industrial IP68 Head |
| <b>Orientation</b>           | Any                  |
| <b>Wall/Ceiling Mounting</b> | 2 x 3mm screws       |
| <b>Enclosure Size</b>        | 85mm dia x 57mm deep |
| <b>Weight</b>                | Approx 70g           |

### Ordering Information

Please supply:

|                     |   |
|---------------------|---|
| <b>Part Number:</b> | Z-TEMP-x-y  |
| <b>x = IND</b>      | Industrial Enclosure  |
| <b>x = COMM</b>     | Commercial Enclosure  |
| <b>y = CO2</b>      | CO2 version<br><small>see ZTEMP-CO2data sheet for details</small> |



|                              |                           |
|------------------------------|---------------------------|
| <b>Style</b>                 | Commercial Enclosure      |
| <b>Orientation</b>           | Any                       |
| <b>Wall/Ceiling Mounting</b> | 2 x 4mm screws / adhesive |
| <b>Enclosure Size</b>        | 80 x 80 x 22 mm           |
| <b>Weight</b>                | Approx 70g                |

| Parameter                  | Min   | Typ           | Max     | Comments                 |
|----------------------------|-------|---------------|---------|--------------------------|
| Supply Voltage             |       | 3.6V          |         | Battery Powered          |
| Supply Current (mA)        |       |               | 40      | When transmitting data   |
| Battery Life               |       | 2 years       | 5 years | Dependent on update rate |
| Ambient Temperature Range  | -40°C |               | 80°C    |                          |
| Relative Humidity Range    | 0%    |               | 100%    |                          |
| Temperature Accuracy       |       | +/- 0.5 deg C |         | At 30 deg C              |
| Relative Humidity Accuracy |       | +/- 3%        |         | Between 10 and 90% RH    |