

## Industrial Interface The Signal Conditioning People

# **Z-HEAD**

### UNIVERSAL INPUT ZIGBEE WIRELESS TRANSMITTER

- Battery Powered Wireless ZigBee **Pressure Transmitter**
- Wide Range of Inputs Including: RTD, Thermocouple, mA and Volts
- Long Battery Life, Low level Alarm
- Wide range of connection heads
- Complete Thermocouple, RTD, Pressure and Level probes available



#### **Description**

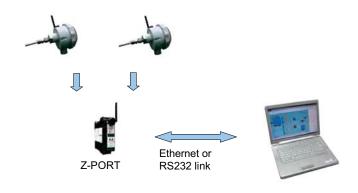
The Z-HEAD universal input ZigBee transmitter can accept a The input types and ranges included below are our standard wide range of inputs from most process measurement devices and transmits the measured variable to a 2.4GHz ZigBee receiver unit.

The Z-HEAD is specially designed to maximise battery life and in a typical application the battery life can exceed three years. The data update rate is user selectable to suit the requirement of each measured variable and so maximise battery life.

Typical update rates include 1 second, 10 seconds, 60 seconds or 1 hour. The unit also transmits a signal strength reading which can be remotely monitored.

The unit mounts in most standard process connection heads and complete assemblies are available for RTD, Thermocouple, Pressure and Level sensors.

The Z-HEAD is designed to operate with the Z-200 or Z-PORT units. The Z-200 can output a 4-20mA or 0-10V signal whilst the Z-PORT can store up to 1024 variables for transmission to an Industrial Ethernet connection or an RS232/485 communications link.



Tel: 01202 480 303

Email: sales@coulton.com

#### Inputs

ones only. Contact Sales for others.

#### **DC Current & Voltage**

0-20mA, 4-20mA, 0-10mA into 15/30  $\Omega$ 0-1V, 0-10V, 1-5V into  $100k\Omega$  /  $1M\Omega$ 

#### **Thermocouples**

Types E,J,K,N,R,S,T,B linearised or non-linearised Ranges: Wide range of inputs Cold junction compensation (can be turned off) Upscale or downscale t/c burnout options

#### **Resistance Thermometers**

2, or 3 wire PT100, linearised or non-linearised. Wide range of inputs upscale or downscale burnout.

#### **Bridge Circuits**

Most standard bridge circuits with mV outputs.

#### **Pressure and Level Sensors**

A full range of ZigBee enabled pressure and level sensors are available, please see Pressure and Level Section

#### **Digital Inputs**

A module for digital inputs is available which can operate in counting mode or status on/off mode

www.coulton.com



# Industrial Interface The Signal Conditioning People

Parameter	Min	Тур	Max	Comments
Supply Voltage		3.6V		Battery Powered
Supply Current (mA)			40	When transmitting data
Input Impedance (Volt)		100kΩ		Dependent on range, typical = 0-10V
Operating Ambient	-200°C		70°C	
Relative Humidity	0%		90%	
Isolation Voltage see note 1	1kV			
Notes				



Installation Data	
Mounting	In Head or wall mount
Orientation	Any
Connections	Screw Clamp with
	pressure plate
Conductor size	0.5-4.0mm
Insulation Stripping	12mm
Weight	Approx 70g
Enclosure Size	85mm dia x 57mm deep

Connection Details				
1.	Power Supply -ve			
2.	Power Supply +ve			
3.	Input +ve			
4.	Input -ve			
3. 4. 5. 6.	RTD 3 <sup>rd</sup> wire			
6.	Bridge Excitation			

Ordering Information				
Please supply:				
Part Number:	Z-HEAD			
Input Type:	e.g mA, Volt, T/C, RTD			
Input Range:	e.g 4-20, 0-10,			
	0-500°C			
Power Supply:	Battery powered			

Fax: 01202 480 808

Tel: 01202 480 303 Email: sales@coulton.com