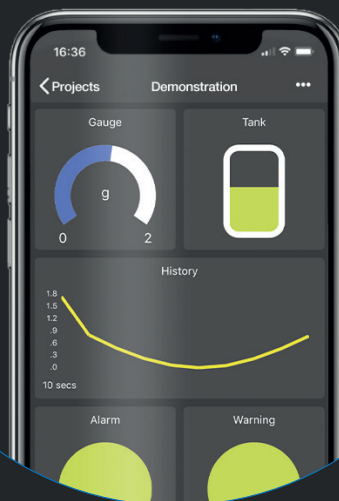# Mantracourt® Electronics

Be Smart Be Simple B24

Our Bluetooth® system sends data straight to your device, making multi–channel wireless strain bridge monitoring affordable for smaller scale applications.

PRODUCT FEATURES

- Range up to 90 m line of sight (295 ft)
- Display data from multiple sensors
- Downloadable free App

Bluetooth®

Hands-on system for iOS & Android devices

Ideal for strain input sensors including weight, force, pressure

Designed as a direct link between mobile devices and strain bridge input sensors, our Bluetooth® wireless system provides high quality measurement to iOS and Android phones and tablets.

With a wide sensitivity range to suit many sensors types.

Transmitter   OEM Module   Free App

SPECIFICATIONS

PARAMETER	
Strain Gauge Excitation System	4 Wire
Strain Gauge Excitation Voltage (Nom)	3 V dc
Strain Gauge Drive Capability	85 to 5000 ohms
Strain Gauge Sensitivity	Up to ±48 mV/V
Offset Temperature Stability	±5 ppm / °C
Gain Temperature Stability (Max)	4 ppm / °C
Non Linearity before Linearization	6 ppm of FR
Internal Resolution	24 bits
Noise free resolution @ 2.5 mV/V:	
14.25 bits Max Battery Life	
15.25 bits 75% Battery Life	
16.00 bits 50% Battery Life	
16.75 bits 30% Battery Life	
BATTERY LIFE (at 1 sample per second)	
2 x AA cells, Transmitting 24 hr/day	10 months
POWER SUPPLY	
Standby (Max)	10 µA
Power Supply Voltage	2.3 – 3.6 Vdc
Power Supply Ripple	50 mV ac pk-pk
Peak Current (1K Bridge)	30 mA
ENVIRONMENTAL	
Operating Temperature Range	–40 to +85 °C
Storage Temperature Range	–40 to +85 °C
Maximum Humidity (non condensing)	Up to 95%
Protection (B24-SSBC only)	IP67
DIMENSIONS	
'C' Style Enclosure	80 x 62 x 34 mm
OEM Module	2.3 x 21.5 x 25 mm

Data from multiple sensors and remarkably power efficient

Our point to point system delivers multiple transmitters to one or many mobile devices and utilises Bluetooth Low Energy (BLE).

One to One:

One to Many:

Many to One:

Many to Many:

Powerful App functionality for free

Our mobile app interface creates uncluttered dashboards for hands-on measurement:

1 Create multiple projects each with their own dashboards and list of modules

2 Build powerful expressions to define exactly what gets displayed

3 Five different tile types to customise your dashboard

4 Display data from multiple modules

Download on the **App Store**

GET IT ON **Google Play**

Mantracourt® Electronics

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