



APPLIED MEASUREMENTS LTD.
Transducer Specialists...

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T24-BSi Industrial Base Station

Key Features:

- Works with all T24 Telemetry Instruments
- USB, RS232 & RS485 Interfaces
- IP67 Environmental Protection
- Tough ABS Enclosure
- Powered From USB Port (USB mode only)
- Controllable Baud Rates (using DIL switch)
- Configure & Calibrate the T24 Devices
- Wide Range Power Supply
- Up to 800m Range
- Integral Antenna
- Data Collection for PC/PLC



The T24-BSi is the industrial base station, housed in an IP67 rated enclosure which is suited to most industrial environments. The T24-BSi allows configuration of any of the T24 wireless telemetry modules via a PC or laptop using the T24 Telemetry Toolkit Software which is included. The T24-BSi can also be used to collect data from as many T24 acquisition modules as you have in your system to provide wireless datalogging functionality.

This device offers far more interface options for a user than its smaller cousins the T24-BSu & T24-BSue. The T24-BSi can be powered and controlled using a single USB interface; however the T24-BSi also has serial RS232 and RS485 interfaces at baud rates of 9600-460800.

When using either of the serial interfaces the device must be powered externally. The serial interface .dll (Dynamic Link Library) provides the ability for customised user software to be created with the use of VB (Visual Basic) over any interface the user wishes to select.

Industries:

- Civil Engineering
- Lifting & Handling
- Waste Management
- Alternative Energy
- Construction
- Automotive
- Silo & Weighing Industry
- Marine

Applications:

- Wireless Monitoring of Bridge Structures
- Wireless Monitoring of Anchor Loads
- Wireless Bridge Surveying via GPRS
- Wireless Truck Load Weight Monitoring
- Wireless Skip Weighing System
- Wireless Platform Weighing with Ticket Printing
- Wireless Monitoring of Building Foundations
- Wireless Telemetry Strain Measurement of Wind Turbines
- Remote Load Monitoring of Construction Shoring Struts
- Force Measurement in Formula Racing
- Wireless Silo Weighing
- Superyacht Sail-Track Development
- Telemetry Monitoring on High Altitude Roads
- Radio Telemetry Monitoring of Underwater Turbine
- Wireless Mooring Rope Monitoring
- Wireless Valve Control
- Torque Measurement Using Wireless Technology
- Measuring the Power Output of a Motor



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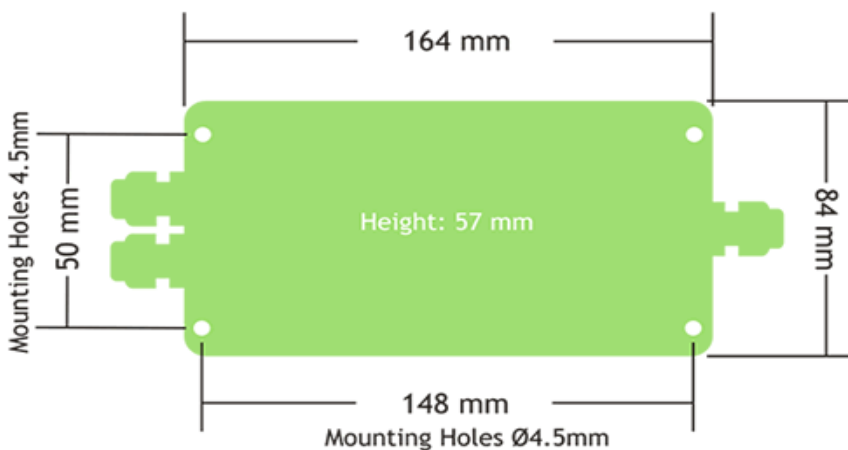
Specification:

Radio	Min	Typical	Max	Units
Licence		Licence Exempt		
Modulation Method		MS (QPSK)		
Radio Type		Transceiver (2 way)		
Data Rate		250		K bits / second
Radio Frequency	2.4000		2.4835	GHz
Power		10		mw
Range*			800	Metres
Channels (DSSS)		15		

*Tests conducted in an open field site with the transmitter at the top of a 3m pole. The receiver was mounted 1.5m off the ground.

T24-BSi	Min	Typical	Max	Units
Power Supply				
External Power Supply Voltage Range	9	12	32	Vdc
Supply Current at 12V	-	100	-	mA
Reverse Polarity Protection		-	-32	Vdc (Maximum Supply)
Environmental				
Operating Temperature Range	-20	-	+55	°C
Storage Temperature Range	-40	-	+85	°C
Humidity	0	-	95	%RH
IP Rating (excluding USB connector)		IP67 / NEMA 4		

Dimensions (mm):





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Ordering Codes:

T24-BSi	Wireless Radio Telemetry Industrial Base Station
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Associated Products:



[T24-ACM Wireless Sensor Module Enclosure with External Power](#)



[T24-ACMi Mini Sensor Enclosure](#)



[T24-ACMm Mini data transmitter case for strain, 0-20 mA, 0-10 V](#)



[T24-BSu Wireless radio telemetry USB base station](#)