

Wireless Telemetry Connectivity Modules

Features



- A choice of enclosures for the T24 acquisition modules providing field terminals screw terminals for ease of integration
- Battery powered for up to 5 years
- IP67 Rated
- Integrated PCB antenna
- Simple configuration and calibration of acquisition module via PC using base station & T24 Toolkit software
- 1 year manufacturer's warranty



Introduction

The T24-ACM and T24-ACMi are rugged enclosures designed for Mantracourt's range of Acquisition Modules: T24-SA (Strain Ratio Metric Acquisition), T24-IA(0-20mA Acquisition), T24-VA (0-10V Acquisition). Both provide battery power and simple screw field terminals for easy wiring to a variety of sensors.

The T24-ACM is the larger enclosure and offers greater power capacity via 2 x D cell batteries as well as an external power supply input. Ideally suited for applications where power is available but battery

backup is preferred. With simple field connections for sensors.

The T24-ACMi is the smaller enclosure and provides power via 2 x AA batteries. With two 5mm mounting holes the enclosure is ideally suited for fitting directly to sensor housings.

Both enclosures when coupled with a T24-SA are ideally suited for connecting up to 4 standard load cells. (e.g. weigh bridges, silos and weigh pads)

Specifications

Electrical	Min	Typical	Max	Units
Battery Supply voltage	2.1	3.0	3.6	Vdc
External Power Supply Voltage (<i>T24-ACM ONLY</i>)	5		18	Vdc

Environmental				
IP rating		IP67		
Operating temperature range for T24-ACMi	-40		+80*	C
Operating temperature range for T24-ACM	-40		+65	C
Storage temperature	-40		+85	C
Humidity	0		95	%RH

*Check operating temperature of AA cells intended for use.

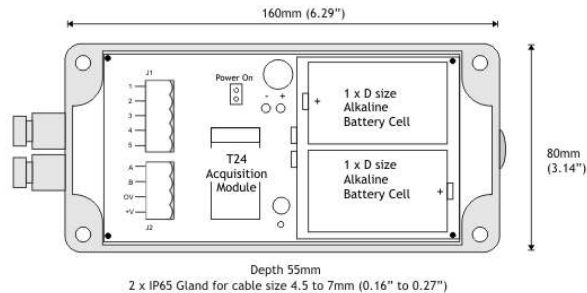
Product Order Codes

T24-ACM	Wireless Radio Telemetry Acquisition Enclosure	T24-HR	Wireless Radio Telemetry Handheld Display Unlimited Inputs
T24-ACMi	Wireless Radio Telemetry Acquisition Enclosure	T24-HS	Wireless Radio Telemetry Handheld Display Single Inputs
T24-ANTA	Wireless Radio Telemetry Antenna	T24-IA	Wireless Radio Telemetry Current (4-20mA) Acquisition Module
T24-ANTB	Wireless Radio Telemetry Antenna	T24-PR1	Wireless Radio Telemetry Printer
T24-ANTC	Wireless Radio Telemetry Antenna	T24-RM1	Wireless Radio Telemetry Data to Relay output
T24-AO1	Wireless Radio Telemetry Desktop Analogue Output Module	T24-SA	Wireless Radio Telemetry Strain Gauge /Load Cell Acquisition Module
T24-AO1i	Wireless Radio Telemetry Industrial Analogue Output Module	T24-SAf	Wireless Radio Telemetry 2KHz Strain Gauge Acquisition Module
T24-BC1	Battery Charger for T24 Acquisition Modules	T24-SO	Wireless Radio Telemetry Printer and Display Driver
T24-BSi	Wireless Radio Telemetry Industrial Base Station	T24-TK	Wireless Radio Telemetry Toolkit Software
T24-BSu	Wireless Radio Telemetry Base Station USB	T24-VA	Wireless Radio Telemetry Voltage (0-10V) Acquisition Module
T24-DPV	Wireless Radio Telemetry T24 Data Provider and Logger		
T24-HA	Wireless Radio Telemetry Handheld Display Multiple Inputs		

For more up to date information visit our website www.mantracourt.co.uk/products/wireless-telemetry

T24- ACM Mechanical Dimensions

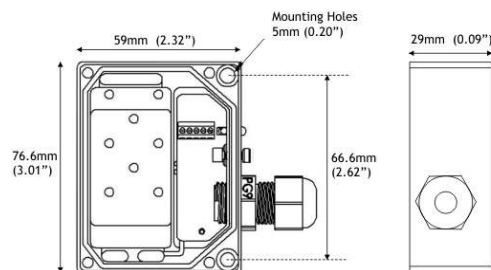
Case dimensions	160 x 80 x 55mm
Case materials	Light grey ABS with IP65 cable glands
Terminals	2.5mm, rising clamp field terminals
Accessibility	All electronics accessible by removing lid
Power Supply	From 'on-board' batteries (2 x D size cells Alkaline) please note these batteries are not included OR External Power Supply (5-18V)



The 4.5mm (0.18") holes for the mounting screws in the base are directly behind the screws for the lid, centres are 148 x 50mm (5.82 x 1.96")

T24-ACMi Mechanical Dimensions

Case dimensions	75.6 x 59 x 29mm
Case materials	Black Delrin Ertacetel-H with IP65 cable glands
Terminals	1.5mm, rising clamp field terminals
Accessibility	All electronics accessible by removing lid and Antenna
Power Supply	From 'on-board' batteries (2 x AA size cells Alkaline) please note these batteries are not included



CE, Complies with EMC directive. 2004/108/EC
The Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive, 1999/5/EC.



Industry Canada Industrie Canada



Designed, Manufactured & Supported in the UK

In the interests of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice.