

Description

The T24-SO creates a serial output which can include data from up to 8 T24 acquisition devices and optionally sum them. The output is suitable for connecting to a printer, serial display or for feeding directly into a PC or PLC.

The actual serial output can be designed by the user which can include free text or tokens which can represent real data. i.e. <V1> would be decoded as the value from input 1 when the output is triggered.

The serial output can consist of a single line of data suitable for feeding into an LED display module or a more complex multi-line result that can contain a mixture of fixed and variable data suitable for tickets, receipts etc for printed output.

The serial output is fixed at 8 data bits, 1 stop bit and no parity. RS232 or RS485 are supported.

Baud rates can be selected as 9600, 19200, 38400, 57600, 115200, 230400, 460800. The output can be triggered from an external digital trigger or by the arrival of data from a specific device.

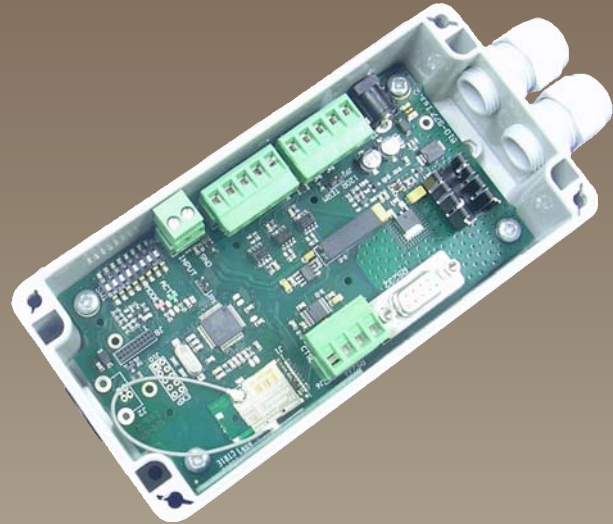
LCM Systems can supply the T-24 products integrated into various products, to form a wireless load cell system. There are several standard products which utilise these products, including the TELSHACK range and RILL.

Please contact LCM's technical department to discuss your wireless load cell requirements.

Typical Applications

- Wireless shackle load cells
- Wireless link load cells
- Platform Weighing
- Vehicle Weighing
- Rotating machine force measurement
- Balancing Systems
- Simple Centre of Gravity

T24-SO Wireless Telemetry Serial Output Module



Features

- 2 way radio system for data integrity
- Wide operating voltage range
- Worldwide licence exempt 2.4 GHz radio
- Gather data from up to 8 remote
- Acquisition devices
- User defined output (RS232 or RS485)
- 120 metre (400 feet) range maximum
- Simple configuration via PC using base station with Telemetry Toolkit software.
- Environmentally sealed to IP65

Wireless Telemetry Serial Output Module

Specification

General Radio

Parameter	Min	Typical	Max	Units
Licence		Licence Exempt		
Modulation method		MS (QPSK)		
Radio type		Transceiver (2 way)		
Data rate		250		K bits/sec
Radio Frequency	2.4000		2.4835	GHz
Power		1		mw
Channels (DSSS)		16		

* Maximum range achieved in open field site with T24-SO at a height of 3 metres above ground

Approvals

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

FC
Family:
RAD24

 Industry Canada IC:7224A-RAD24

Electrical	Min	Typical	Max	Units
Power Supply voltage	9	12	36	V dc
Average Operating Current		1	3.5	Amps (peak)
Reverse Polarity Protection			-36	V dc

Use a pair of alkaline AA batteries. Due to the higher voltage requirements of this device NiMH and NiCad batteries are not recommended.

Environmental	Min	Typical	Max	Units
IP rating		IP65		
Operating temperature range	-40		+65	C
Storage Temperature	-40		+85	C
Humidity	0		95	%RH



TYPE: T24-SO

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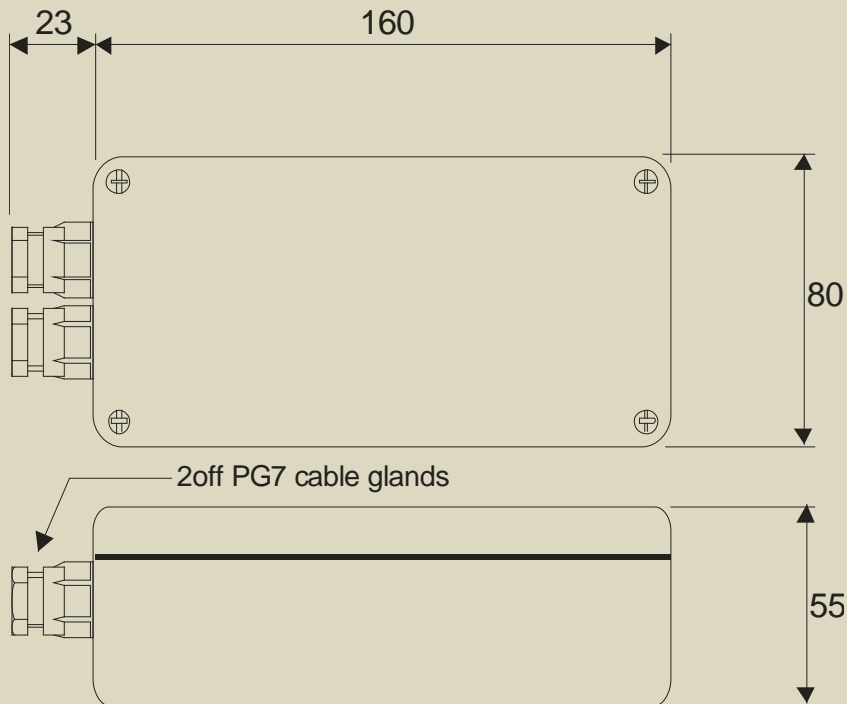
Wireless Telemetry Serial Output Module

Product Order Codes

T24-SAi	Strain gauge acquisition module internal antenna	T24-HS	Handheld Reader – simple version
T24-SAe	Strain gauge acquisition module external antenna	T24-HA	Handheld Reader – Advanced version
T24-VAi	Voltage acquisition module internal antenna	T24-BSu	Base Station - USB
T24-VAe	Voltage acquisition module external antenna	T24-BSi	Base Station – Industrial
T24-IAi	Current acquisition module internal antenna	T24-SO	Serial Output Module
T24-IAe	Current acquisition module external antenna	T24-BC1	Battery Charger/Voltage Regulator
T24-SAfi	“Fast” strain gauge acquisition module internal antenna		
T24-SAfe	“Fast” strain gauge acquisition module external antenna		

Mechanical Dimensions

All dimensions in millimeters



Due to continual product development, LCM Systems Ltd. reserves the right to alter product specifications without prior notice.

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