

New Generation Telemetry Serial Output

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
- 120 metre (400 feet) range maximum
- Simple configuration via PC using base station with Telemetry Toolkit software



Introduction

This device 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.

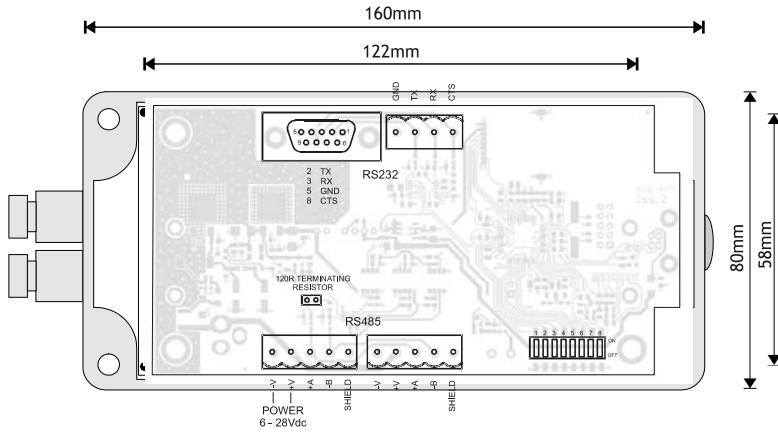
The serial output can consist of a single line of data suitable for feeding into an LED display module or a more complex multi-line result that can contain a mixture of fixed and variable data suitable for tickets, receipts etc for printed output.

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

Specifications

Parameter	Minimum	Typical	Maximum	Units	Notes
External Supply voltage Range	9	12	36	Volts	
Average Operational Current	-	1A	3.5A Peak	mA	
Operating Temperature Range	-40	-	65	Deg C	
Storage Temperature Range	-40	-	65	Deg C	
Reverse Polarity Protection		-	-36	Volts	Maximum Supply level

Connections



2 x IP65 Gland for cable size 4.5 to 7mm

Product Order Codes

T24-SAi	Strain Gauge Acquisition Module internal antenna	T24-HS	Handheld Reader Simple
T24-SAe	Strain Gauge Acquisition Module with socket for external antenna	T24-HA	Handheld Reader Advanced
T24-VAi	Voltage Acquisition Module internal antenna	T24-BSu	Base Station USB
T24-VAe	Voltage Acquisition Module with socket for external antenna	T24-BSi	Base Station Industrial
T24-IAi	Current Acquisition Module internal antenna	T24-SO	Serial Output
T24-IAe	Current Acquisition Module with socket for external antenna	T24-BC1	Battery Charger
T24-SAFi	'Fast' Strain Gauge Acquisition Module internal antenna	T24-ACM	Single Channel Acquisition Connectivity Module
T24-SAfe	'Fast' Strain Gauge Acquisition Module with socket for external antenna	T24-PR1	Thermal Printer



Approvals

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



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