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Modul wireless cu iesire analogica T24-AO1i



Modul wireless cu iesire analogica T24-AO1i Producator: LCM Systems T24-AO1i Wireless Telemetry Analogue Output Module

Descriere

T24-AO1i Wireless Telemetry Analogue Output Module

Features :

- 2 way radio system for data integrity
- Wide operating voltage range (9-32vdc)
- 0-10V, 4-20mA, 0-20mA, ±10V and ±5V analogue outputs available
- Worldwide licence exempt 2.4 GHz radio
- Integrated internal antenna
- 120 metre (400 feet) range maximum
- Simple configuration via PC using a base station and Telemetry Toolkit software.
- Environmentally sealed to IP65

T24-AO1i provides a configurable analog output for the range of T24 acquisition modules. The T24-AO1i is housed in an IP65 housing for industrial installation.

The output can be selected from the pre-calibrated voltage and current ranges. 0-10Volts, ±10Volts, 0-5Volts, ±5Volts, 0-20mA, 4-20mA. which can be used in either ‘sink’ or source mode.

LED’s in the T24-AO1i provide indication of the state of the radio link, remote battery life and remote status. The T24-AO1i uses open collectors outputs to relay this information

A digital Input allows for zeroing of the incoming data value.

The T24-AO1i modules are easily configured using the T24 Toolkit software and a base station.

LCM Systems can supply the T-24 products integrated into various sensors, to form a wireless sensor system. There are several standard products which utilise the T24 range, including the TELSHACK range and RILL ranges.

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

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		

General Radio

Approvals

* Maximum range achieved in open field site with T24-AO1i at a height of 3 metres above ground Electrical/Environmental				
Parameter	Min	Typical	Max	Units
External Supply Voltage Range	9	12	36	V dc
Operational Current		85	150	mA
Reverse Polarity Protection			-36	V dc
Digital Output Drive Current			20	mA
Digital Output Drive Voltage			30	Vdc
Digital Input Load Impedance	100			ohms
IP rating		IP65		
Operating temperature range	-40		+65	°C
Storage Temperature	-40		+85	°C
Humidity	0		95	%RH
Voltage Output	Min	Typical	Max	Units
Resolution		16		Bits
Output Gain Stability		0.008	0.015	±%FS/°C
Short Term Stability (1 hour)		0.003	0.01	±%FS
Long Term Stability (10,000 hours)		0.03	0.1	±%FS
Residual Ripple		40		mV pk-pk
Minimum Load Impedance	5000			ohms
Linearity		0.007	0.01	±%FS
Bandwidth (-3dB)		200		Hz
Current Output	Min	Typical	Max	Units
Resolution		16		Bits
4-20mA Output Gain Stability		0.006	0.12	±%FS/°C
4-20mA Output Zero Stability		0.005	0.01	±%FS/°C
Short Term Stability (1 hour)		0.006	0.018	±%FS
Long Term Stability (10,000 hours)		0.06	0.2	±%FS
Residual Ripple		0.032		mA pk-pk
Settling time to ±0.5uA (thermal effects)	5			seconds
Maximum Load impedance			500	ohms
Linearity		0.01	0.02	±%FS
Bandwith (-3dB)		200		Hz

Electrical/Environmental