

TECHNICAL DATA SHEET

DigiTag RF Wireless Datalogging

Using the latest RF technology, our **DigiTag RF** wireless datalogging system allows temperature data stored in its loggers to be downloaded remotely and wirelessly to DigiTag RF mobile. A summary of each loggers temperature records can be viewed on DigiTag Mobile's display or alternatively for a more comprehensive analysis, data can be downloaded to a PC.

Ideal for applications where temperature critical products are transported from location to location, DigiTag RF mobile can easily collect data without the need to retrieve each logger from its monitoring position.

Key Features

- ✓ Download Temperature Data without retrieving loggers from monitored areas
- ✓ User Friendly software for easy programming
- ✓ Read out of data from 16m away
- ✓ Restart logging cycle of Dataloggers remotely
- ✓ Customisable Alarm Settings

The **DigiTag RF** loggers can store up to 1868 samples. In order to measure product and environment temperatures, the logger has both internal or external sensor options and a temperature range of -30°C to +70°C. Data can also be viewed on the logger's large LCD display.

DigiTag RF mobile simple to use menu driven interface has the ability to display statistics about the loggers as well as temperature data and alarm statuses. **DigiTag RF** is an ideal solution for accessing temperature data from shipments before unloading and even allows you to receive data from loggers without opening refrigerator/chiller doors!



MI-0ED2-LR8



EA-RI-8

MI-1ND-2LR8

TECHNICAL DATA SHEET

DigiTag RF Logger Specification

Temperature Range	Internal or External options
Sensors	±0.5° C
Accuracy	0.5° C
Resolution	Operating Temp -20 to +70°C
Liquid Crystal Display	1st Button Press - High, Low & Average Readings 2nd Button Press-Time Spent Under/Over Specification
Communication Frequency	868.35 MHZ
Communication Range	Indoor: 16m Outdoor: 70m (performance may vary due to environment conditions)
Measuring Response	T90 of 5 minutes in moving air
Memory	1896 samples
Data Recovery	Download via REDi or IBM compatible PC at 2400bps
Sampling Frequency	1 to 255 minutes
Recorder Start-Up	Long Button Press (2 seconds or until lines appear on LCD)
Security	Logger data and settings can be protected through programming the logger with a password using Console Software
Time and Date	Real Time Clock, accuracy better than 1 minute per month at ambient. Multiple time zones supported
IP Rating	IP51
Size	80 x 57 x 20 mm (excluding lug)
Weight	70 Grams
Case Material	Polycarbonate/ABS
Storage Temperature	-40 to + 85° C
Power Source	User Replaceable Coin Cell Battery
Typical Battery Life	1 to 2 Years
Warranty	24 Months (excluding batteries)

DigiTag RF mobile

Communication Frequency	868.35 MHZ
Communication Distance	Wireless Communication is subject to interference, and depending on obstacles between transmitter and receiver as well as surrounding structures. Maximum Distance for Communication between logger and REID with direct line of sight - 70m outside / 16m inside
Communication Speed	Download from logger to Mobile at 76.8 Kbps. Less than 1 second for f Mini Logger memory
Liquid Crystal Display	Dot Matrix LCD 160 x 160 pixels, graphical plot of data. Operational -20°C to +70°C
Memory	1MB, maximum of 162 logger files for dataloggers with 2K memory
Data Recovery	Download via IBM compatible PC using Console Software
Software Security	Console Software , operating system Windows 98 or later required
Time and Date	Real time clock, accuracy better than 1 minute per month at ambient. Multiple time zones supported
IP rating	IP65
Size	155 x 72 x 26mm
Weight	110 grams (excluding batteries)
Case Material	Polycarbonate/ABS
Temperature Range	Unit can be stored and operated at -40°C to +85°C
Power Source	2 x Alkaline or Nicad AA batteries
Typical Battery Life	60 Hours (Alkaline Batteries)
Warranty	12 months, excluding batteries

Accessories

Product Code	Item
MA-SWP-WIN	Console for Windows Software
MA-SWP-CON	Console Professional Software Site Key to unlock enhanced features of console
SER-USB	USB to serial port adapter

DS-DigiTagRF/1/9/07



Amber Instruments Ltd

Dunston House, Dunston Road, Chesterfield, Derbys, S41 9QD

Tel: 01246 260250 Fax: 01246 260955

e-mail: sales@amberinstruments.com web: www.amberinstruments.com

Torque Transducers, Load Cells (general purpose, weighing & fatigue rated). Multi-Axis Force/Torque, Weighing Instruments, Process Instruments, Portable Data Loggers, Pressure Sensors, Proximity Sensors, Laser (Distance Measuring) Sensors, & more.