

INFRARED THERMOCOUPLE DATA LOGGER



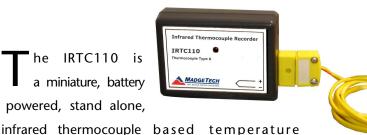
Features

- 10 year battery life
- Wide temperature range
- Uses thermocouple type K (contact sales for other types)
- High speed download
- N.I.S.T. traceable
- Real-time operation
- Low cost
- Programmable start time
- Miniature size

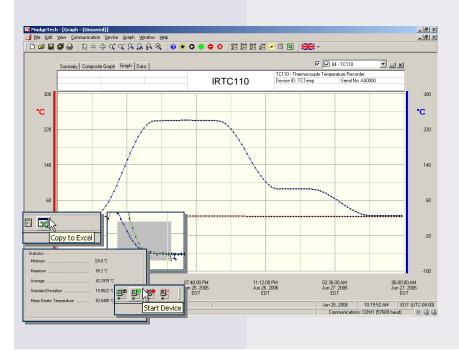
Applications

- Non-contact temperature monitoring
- Flow monitoring
- **Surface Temperature**
- Process verification and validation
- Remote areas
- **Moving Objects**
- Long distance temperature measurement
- **Heavy Equipment**

he IRTC110 is a miniature, battery powered, stand alone,



recorder, for nearly instantaneous, non-contact, temperature measurements. The IRTC110 features a real-time clock module that extends the battery life to >10 years and allows for high speed downloads. This is an all-in-one compact, portable, easy to use device that will measure and record up to 16,383 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The IRTC110 makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our userfriendly software does the rest.



MadgeTech Data Recorder Software displays temperature data in an easy to use graph.

The Windows®-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Click MadgeTech Software for more information or to download the software.

IRTC110 SPECIFICATIONS*

Internal Channel

Temperature Range: -40 to +80°C

Temperature Resolution: 0.1°C

Logger Calibrated

Accuracy: ± 0.5 °C (0 to +50°C)

Remote Channel

Thermocouple Type: K (Infrared, contact sales for other types)

Thermocouple

connection: Female subminiature (SMP)

Cold Junction Compensation: Automatic, based on internal channel

Maximum Thermocouple

Resistance: 3000Ω

Thermocouple Type: Range (°C) Sensor

> Κ ±2.0°C Contact for

> > available ranges.

Field of View: 60° (1:1)

Minimum Spot Size: 8 mm (0.3")

Spectral Response: 6.5 to 14

microns

Start Modes: Software programmable immediate start or

delay start up to six months in advance

Real Time Recording: May be used with PC to monitor and record

data in real time

Memory: 16,383 readings per channel for a total of 32,766

readings; software configurable memory wrap

Reading Rate: 1 reading every 2 seconds to 1 every 12 hours

Calibration: Digital calibration through software Calibration Date: Automatically recorded within device

Battery Type: 3.6V lithium battery included, user replaceable

Battery Life 10 years (15 minute reading rate at 25°C)

Data Format: Date and time stamped °C, °F, K, °R

Time Accuracy: ±1 minute/month (at 20 to 30°C)

Computer Interface: PC serial or USB (interface cable required); 57,600 baud

Software: Windows 95/98/ME/NT/2000/XP/Vista based

software

Operating Environment: -17 to 70°C (1 to 158°F)

Dimensions: 1.7" x 2.3" x 0.8" (44mm x 59mm x 21mm)

Data Logger Probe 3.25" L x 1.80 cm Dia. (1.28 x 0.71"); 0.9 m

Dimensions: (36") PFA coated unshielded stranded wire

Weight: 2.1 oz (60 g)

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212°F, INCINERATE OR EXPOSE CONTENTS TO WATER

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from

several units or deployments; easily

switch to a single data series

Graphical Cursor: One click displays readings by time,

value, parameter or sample number

Data Table: Instantly access tabular view for detailed dates, times, values, and

annotations

Scaling Options: Autoscale function fits data to the

screen, or allows user to manually

enter their own values

Formatting Options: Change colors, line styles, plotting

options, show or hide channels quickly

Statistics: Calculate averages, min, max, standard

deviation, and mean kinetic temperature

with the touch of a button

Export Data: Export data in a variety of common formats, or

switch to Excel® with a single click

Calibration: Automatically calculate and store calibration

parameters

Logger Configuration: Easy set up and launch of data loggers with

immediate or delayed start, preferred sample

rate, and device ID

Communications: Automatically sets up communications port, or

lets user select configuration

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

<u>Model</u>	<u>Description</u>	Price (U.S.)
IRTC110	Thermocouple Recorder with infrared thermocouple.	\$399.00
IFC110	Software, manual and RS232 interface cable	\$99.00
IFC200	Software, manual and USB interface cable	\$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
LTC-7PN	Replacement battery for IRTC110.	\$10.00

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

ASK ABOUT OUR OTHER **DATA RECORDERS**

Temperature Pulse/Event/State Humidity Low Level Current Pressure Low Level Voltage Нα **RF** Transmitters Level Intrinsically Safe **Spectral Vibration** Shock LCD Display