IRTC101A INFRARED THERMOCOUPLE DATA LOGGER



Features

- 10 Year Battery Life
- Wide Temperature Range
- Uses Thermocouple Type K (contact sales for other types)
- High Speed Download
- Real-time Operation
- Low Cost
- Programmable Start Time
- Miniature Size

Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

- Non-contact Temperature Monitoring
- Flow Monitoring
- Surface Temperature
- Process Verification and Validation
- Remote Areas
- Moving Objects
- Long Distance Temperature
 Measurement
- Heavy Equipment

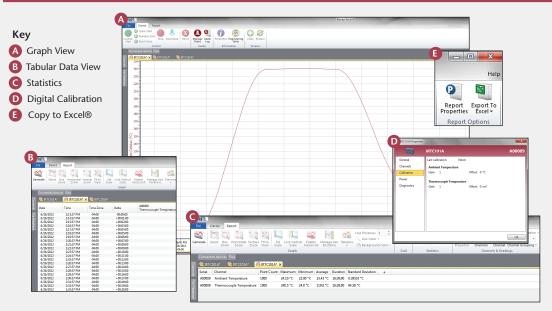


The IRTC101A is a battery powered infrared thermocouple based temperature data logger. It provides nearly instantaneous, non-contact temperature measurements, making it a perfect solution for applications such as surface temperature recording and monitoring moving objects.

The IRTC101A features a 10 year battery life, 1 second reading rate, a multiple start/stop function, ultrahigh speed download capability, 500,000 reading storage capacity, optional memory wrap, battery life indicator, optional password protection, programmable high-low alarms and more.

As the leader in low power data logger technology, MadgeTech continuously improves its products and develops solutions to meet ever-changing challenges. The IRTC101A was designed with our customers in mind. MadgeTech offers free firmware upgrades for the life of the product so that data loggers already deployed in the field can grow with new technological developments. Units do not need to be returned to the factory for upgrades. The user can do this from any PC.

MADGETECH DATA LOGGER SOFTWARE



Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

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IRTC101A SPECIFICATIONS*

Internal Channel		Real Time Recording:	The device may be used with PC to monitor and		
Temperature Range:	-40 °C to +80 °C (-40	°F to +176 °F)		record data in real time	
Temperature Resolution:	0.1 °C (0.18 °F)		Alarm:	Programmable high and low limits; alarm is activate when temperature reaches or exceeds set limits	
Calibrated Accuracy:	±0.25 °C (±0.45 °F)			Green LED blinks:	
Remote Channel				10 second rate to indicate logging 15 second rate to indicate delay start mode	
Thermocouple Type:	K (Infrared, contact sales for other types)		LED Functionality:	Red LED blinks: 10 second rate to indicate low battery and/or full memory 1 second rate to indicate an alarm condition	
Thermocouple connection:	Female subminiature (SMP)				
Cold Junction Compensation:	Automatic, based on internal channel				
Maximum Thermocouple Resistance:	3000 Ω		Password Protection: An optional password may be programmed in device to restrict access to configuration option may be read out without the password.		
Thermocouple Type	Range (°C)	Sensor	Battery Type:	3.6V lithium battery included; user replaceable	
К	25 °C to 80 °C	±2.0 °C		10 years typical at a 15 minute reading rate	
	Contact for other rang	es.		IRTC101A	
Field of View:	60° (1:1) 8 mm (0.3 in) 6.5 to 14 microns 1 reading every second up to 1 reading every 24 hours		Battery Life:	160.00	
Minimum Spot Size:				140.00 (f 110.00 y no.00 y no.	
Spectral Response:					
Reading Rate:					
Memory:	 500,000 readings; memory wrap 250,000 readings i mode 	software configurable n multiple start/stop		2000 0.00	
Wrap Around:	Yes			0.01 0.10 1.00 10.00 100.00 100 Reading rate (minutes)	
Start Modes:	Immediate startDelay start up to 18 months			Graph display of the device recording in a 25 °C environment.	
Start Moues.	 Multiple pushbutto 		Data Format:	Date and time stamped °C, °F, K, °R; $\mu V,$ mV, V	
~ • • •	Manual through so	ftware	Time Accuracy:	± 1 minute/month (at 20 °C, stand alone data loggin	
Stop Modes:	Timed (specific date and time)		Computer Interface:	USB (interface cable required); 115,200 baud	
	Start and stop the device multiple times without having to download data or communicate with a PC		Software:	XP SP3/Vista/Windows 7/Windows 8	
Multiple Start/Stop Mode:			Operating Environment: -18 °C to +70 °C (-40 °F to 158 °F) 0 %RH to 95 %RH non–condensing		
Multiple Start/Stop Mode Activation:	To start the device: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging.		Dimensions:	1.4 in x 2.2 in x 0.6 in (36 mm x 56 mm x 16 mm)	
			Data Logger Probe Dimensions:		
	To stop the device: Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging.		Weight:	0.9 oz (24 g)	
			BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212 °F, INCINERATE OR EXPOSE CONTENTS TO WATER.		

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

MODEL	DESCRIPTION	ASK ABOUT	Temperature Humidity Pressure
IRTC101A		OUR OTHER DATA	pH Level
IFC200	Software, manual and USB interface cable.	LOGGERS	Shock LCD Display
Calibration Certificate	Calibration Certificate available for data logger	Р	ulse/Event/State Current
LTC-7PN	Replacement battery for IRTC101A.		Voltage Wireless
For Quantity Discounts call 603-456-2011 or email sales@madgetech.com			ntrinsically Safe pectral Vibration Motion

ORDERING INFORMATION

