Measure hard-to-reach, sensitive, or moving target temperatures. Thi

Two instruments in one! Plug in optional K-type surface probe to convert non



FEATURES

- Easy to use one button operation
- 0.1 resolution for best reading
- Data hold function
- Soft holster pouch included

• 8:1 distance to spot ratio

ROWER

Rpi 373

THEP'3-YEAR

*t*pi

7.875" x 1.75" x 1.75"

372/373

VARRA

- **381F: 6:1** distance to spot ratio
- Large, easy to read LCD
- °C and °F selectable
- 9V battery included

- What does "distance to spot ratio" mean? The laser spot needs to be showing inside the target area. An 8:1 "distance to spot ratio" means vou are measuring a 1" diameter area at a distance of 8".

How far can I measure?

Distance is unlimited. The size of the target area sets the limit on distance for accurate measurements. Example: If the area you wish to measure is 1 foot in diameter, then you will need to be within 8 feet to record an accurate temperature.

What is the smallest target I can read? Approximately one-half inch in diameter. How do I turn the laser on and off? While holding the Power On button down you can toggle the Lock On button for either laser on or laser off operation. When the laser is activated the laser displays this icon A What is emissivity?

This is a ratio of an object's infrared emission compared to a theoretical black body, considered 1. Emissivity is always less than 1. Adjustable emissivity allows your non-contact thermometer to be adjusted to the surface you are checking to makereadings more accurate.

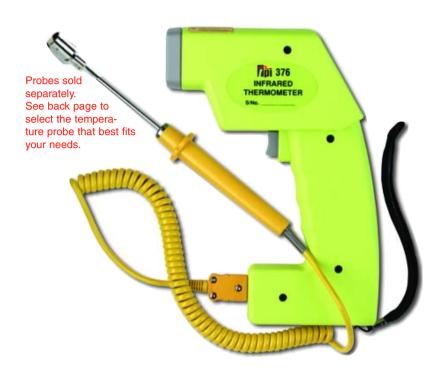
How do I adjust the emissivity of my contact/noncontact 375, 376, 377? The 375, 376, and 377 feature adjustable emissivity

and contact probe capability. This is very useful for determining the emissivity of any surface condition. Simply use the contact probe and record surface temperature. Next use the IR gun and adjust the emissivity until the temperature matches the reading of the contact probes. Copper pipe produces different emissivity properties, ranging from 0.02 to 0.78, due to oxygen oxidation and curvature. You will now have the most accurate reading in the IR mode for that surface.

How can I make measurements more accurate if I don't have my contact probe or have a fixed emissivity thermometer?

Painting the surface being measured matte black will make temperature readings more accurate. A piece of black tape can also be used.

FUNCTION	372	373	380	381	381F	383	384
Temp Ranges	-58° to 550°F	14° to 950°F	-4° to 572°F	-4° to 572°F	-31° to 572°F	-31° to 999°F	-31° to 1832°F
-50° to 28°C	50° to 510°C	-10° to 510°F	-20° to 300°C	-20° to 300°C	-35° to 300°C	-35° to 560°C	-35° to 1,000°C
Laser Signting	Yes	Yes	No	Yes	Yes	Yes	Yes
Accuracy @ 25°C and	\pm (2% of reading, \pm 3.5°F):	\pm (2% of reading, \pm 3.5°F):	±(2% of reading, ±3.5°F):	±(2% of reading, ±3.5°F):	32°F ~ 158°F : ±2°F	\pm (2% of reading, \pm 3.5°F):	-4°F ~ 32°F : ±5°F
0.95 Emmisivity	whichever is greater	whichever is greater	whichever is greater	whichever is greater	<32°F or >158°F: ± (2% of reading,	whichever is greater	32°F ~ 1040°F : ±3.5°F
				±3.5°F): whichever is greater	±3.5°F):whichever is greater		1040°F~1832°F:±(2%+3 digits)
Response Time	500 milliseconds	500 milliseconds	500 milliseconds	500 milliseconds	500 milliseconds	500 milliseconds	500 milliseconds
Emissivity	0.95 fixed	0.95 fixed	0.95 fixed	0.95 fixed	0.95 fixed	0.95 fixed	0.95 fixed
Spectral Response	7~14um	7~14um	7~14um	7~14um	7~14um	7~14um	8~14um
Operating Temp.	32° to 120°F	32° to 120°F	32° to 120°F	32° to 120°F	32° to 120°F	32° to 120°F	32° to 120°F
	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C
Battery Type	9V alkaline	9V alkaline	9V alkaline	9V alkaline	9V alkaline	9V alkaline	9V alkaline



 Laser pointer Record function (N Display data hold f Back light Trigger switch 	/lin/Max) function	 8:1 distance to spot °C and °F selectable Gun-type compact de Operating lock functi 9V battery and soft p
SPECIFICATION	5	
FUNCTION	375	376
Temp. Ranges	0° to 950°F	-58° to 950°F
	-18° to 510°C	-50° to 510°C
Accuracy @ +23°C	30° to 950°F	30° to 950°F
CE=0.95	-1° to 510°C	-1° to 510°C
	±2% of reading or	±2% of reading o
	±3.5°F (2°C)	±3.5°F (2°C)
	whichever is greater	whichever is greate
Response Time	500) milliseconds
Spectral Response		7 - 14um
Emissivity	0.3	to 0.99 adjustable
Display Resolution		°F and 0.1°C or 1°F ar
Ambient Operating Ra	ange 32°	to 120°F and 0° to 50
PROBES		
K-type Range	-40	° to 2192°F and -40° t
K-type Accuracy	±(0	.5% of reading +3°F)
TEMPERATURE I	PROBES	
Choose from a comp • Contact or surface	blete line of probes for	
	• (Gas, air, flame

High temp. immersion

ratio

- esign on
- ouch included

377

- 0° to 1832°F 18° to 1000°C 30° to 950°F -18° to 1000°C ±2% of reading or ±3.5°F (2°C) whichever is greater
- nd 1°C

Semi-frozen product

to 1200°C



APPLICATIONS

Electrical

- Cables
- · Circuit breakers
- Connections
- Machinery Motors
- Transformers

HVACR

- · Compressor heads
- Vents Hot and cold areas in
- insulation · Leaks around cooler
- or freezer doors Leaks around windows
- Steam trans
- Registers

- Holding cabinets
- Serving temperatures
- Storage temperatures



Distance to Laser Point Diameter Ratio Distance to Spot Ratio = 8:1 Example Target Size = 1" x 1"



BEST Laser spot size is 1/2" at a distance of 4"



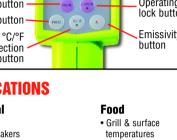
MARGINAL Laser spot size is 1" at a distance of 8"



UNACCEPTABLE Laser spot size is 1 1/2" at a distance of 1'

CAUTION LASER RADIATION

Do not stare at laser beam or point toward others, Keep these products out of reach of children. Output<1 Mw Wavelength 645 - 660nm





IR Kit and Temperature Probes

Stem <u>Length</u>

100mm

100mm 4"

150/36mm 5.9"/1.4"

203mm

NA

100mm

203mm

63.5mm

NA

NA

203mm

NΔ

or 375/376/377

Lead

Length

1M 3'

1M 3'

1M 3'

NΔ

1M

1M 3'

1M 3'

.6M 25.5"

1.2M

1.2M 25.5"

NΔ

1M,

Diameter

3.2mm 0.126"

6.4mm 0.25"

6.4mm 0.25"

3.75mm 0.148"

NA

3.2mm 0.126"

3.75mm 0.148"

3.18mm

NA

NA

3.75mm 0.148"

NA

Insulation

Material

PVC

PVC

PVC

NA

PVC

PVC

PVC

Teflon FDA

Approved

Fiberglass

Teflon FDA

Approved

NA

Stainless Steel

Thermocouple TerminationModel # DescriptionRange*F/°CCK11MSoft to 250°CCK13MCK13MCK13MSearceCK13MStandard tureven surfacesCK14MStandard tureven surfaceCK13MSoft to 550°CCK14MSoft to 550°CCK15MSurface being measuredCK15MSurface being measuredCK15MSurface being measuredCK15MSurface being measuredCK15MSurface being measuredCK15MSurface being measuredCK15MSurface being measuredCK15MSurface being measuredCK11MSurface being surface being measuredFK11M <th></th> <th></th> <th></th>			
CK11MDescriptionRange*F/°CCK11MCK11M-50° to 250°CWith ribbon sensor to contact uneven surfaces-50° to 250°CCK13MCK13M-50° to 650°CHeavy duty K-type surface probe with spring sensor to maintain pressure on seasured-50° to 650°CCK14MCK14M-50° to 650°CCK15MCK14M-50° to 1202°FCK15MCK14M-50° to 1202°FCK15MCK14M-50° to 1202°FSurface being measured-50° to 1202°FCK15MCK14M-50° to 510°CSurface being measured-50° to 100°CCK15MCK14M-50° to 510°CFK11MPIPE CLAMP PROBE cK21M-50° to 100°CFK11MFK11M-50° to 100°CFK11MFK11M-50° to 250°CFK13MFK13M-40° to 850°CFK13MFK13M-40° to 850°CFK13MFK13M-40° to 204°CFK13MFK26M-40° to 204°CFK13MStandard K-type thermocouple probe40° to 204°C -50° to 510°CFK13MStandard K-type thermocouple probe50° to 510°C -40° to 500°FGK13MGK13MStandard K-type thermocouple probe50° to 510°C -40° to 500°FGK13MStandard K-type thermocouple probe50° to 510°C -50° to 510°C -50° to 500°FGK13MStandard K-type thermocouple probe50° to 510°C -50° to 500°FGK13MStandard K-type thermocouple probe40° to 500°F -50° to 500°F		Thermocoup	le Temp
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GK18M Shielded tip with perforations to protect specing area	GK16M	perforations to	
Shielded tip with -40° to 950°F perforations to protect sensing area			-40° to 510°C
protect sensing area	2	Shielded tip with	-40° to 950°F
	GK18M		

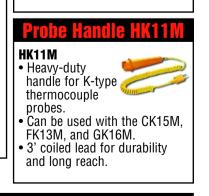
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Save Over 20%
with a
Non-Contact /
Contact Kit

Get a Non-Contact/Contact Thermometer and all the essential probes in one convenient, money-saving kit!



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Each kit includes your choice of the 375, 376, or 377; along with a soft A755 case with shoulder straps; and the following probe attachments: CK15M, Fk13M, GK13M, GK16M. HK11M. For details on the 375, 376, and 377 see the inside of this product brochure.



77pi

Thoroughly

testing and

diagnosing high

efficiency HVACR

systems or large

surface areas can

be labor intensive

and expensive.

Using the

appropriate

non-contact

thermometer

can reduce man

hours and help

insure system

performance

more easily. accurately, and affordably.

Monitor

several feet

of ductwork,

insulation. or

other large

areas in

less time.

No need to

insert

probes.

free!

Safe and

Measure

ladders.

drill holes to

temperature

contamination

temperatures

eader

from ground level - no

frared Applications

Food Safety

- Grill and surface
- temperatures
- Holding cabinets Serving
- temperatures
- Storage
- temperatures
- Food transport

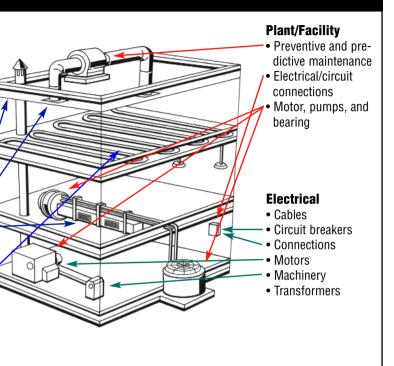
HVACR

- Compressor heads
- Vents and registers
- Hot and cold areas
- in insulation
- · Leaks around cooler
- or heater doors
- Floor heat
- Steam traps



Your Tools at Work

Infrared. Non-Contact Temperature Testers



• New Close-Focus, Pocket-Size Infrared Thermometer

• Close Focus 1/8" ~ 1.5" Selectable Fahrenheit or Centigrade temperature range: -7° to 248°F or

-22° to 120°C • Compact: Easily fits in your pocket

• Auto Data Hold: Point the unit at the surface to be measured then press and hold the ON/SET button.

Temperature will be displayed in less than 2 seconds and held on the display for 10 seconds

- Min/Max function displays the minimum or maximum temperature of 8 samplings in 0.5 seconds
- AUTO sets the 368 into scan mode to continuously scan surface temperatures in real time. In this mode unit automatically powers off after 60 minutes.
- **NOTE:** *Close focus IR thermometers* should be held a distance .5 to 2 inches from surface to obtain an accurate readina

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ange	-7° to 248°F or -22° to 120°C
perating Temp.	-32° to 104°F or 0° to 40°C
ccuracy	2% or reading or ±2°C, whichever is greater
esponse Time	Less than 0.5 second
esolution	0.1°F/C
mmisivity	0.95 fixed
istant to spot ratio	1:1.3
attery	A003
attery Life	50 hours continuous use, auto after 10 sec.