



NON-CONTACT, ONE-SECOND READINGS FOR QUICK, SAFE SCREENING.

*FDA-cleared for safety & accuracy for kids and adults. ETI non-contact forehead thermometer measures infrared energy radiated from the skin at the centre of the forehead area. This captured energy is collected through the lens and converted to a body temperature value (displays oral equivalent temperature).

It's helpful to know each individual's normal temperature when they are well. This is the best way to accurately diagnose a 'high temperature. To get a reference value, we suggest taking multiple readings (5 to 10) over one minute, taking the highest number to determine "normal temperature".

Measuring forehead temperatures Quick, easy, and reliable!





- Power on device
- 2 Point at centre of forehead 4 cm away
- 3 Press and hold START for one second a single beep tells you it's done

The non-contact forehead thermometer is pre-set to forehead mode and to display temperature in Celsius. Three short beeps followed by one long beep while taking a forehead reading means that the temperature exceeded 37.5 °C (99.5 °F).

Please wait two seconds between measurements.

ELECTRONIC TEMPERATURE INSTRUMENTS LTD

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Functions

Power off device – Device will auto-off after 60 seconds to save battery life. Or, press and hold Power button for about five seconds. 'Off' will flash before powering off.

View readings – With device turned on, press Power button momentarily to see the last reading, which is reading number one. Each subsequent press of the Power button will show up to 25 readings in order. The reading number will flash before displaying the value.

Mute – With device turned on, press and hold Power button for three seconds until speaker icon flashes, then release. Repeat steps to unmute.

Change to surface mode – With device turned on, press and hold Power button, then press Start to toggle between modes. Device will automatically return to forehead mode after powered off and back on again.

Change from °C to °F – Default unit is °C. With device turned off, press and hold Start and the Power button simultaneously for three seconds. Units will change.

Cautions

- Forehead should be clean, dry, and unobstructed before taking readings.
- Non-contact thermometer is not waterproof. Avoid wet areas and splashes.
- Do not expose device to temperatures above 38 °C (100 °F) or below 10 °C (50 °F).
- Replace batteries when battery icon flashes.
- Store device at room temperature where readings will be taken for best results.
- Avoid drops, bumps, and rough handling that could damage device.
- Sensor lens area is the most delicate part; keep clean and free from debris.
- Consult user manual before cleaning lens.

For guarantee, service, and technical assistance, please contact our technical sales office on 01903 202151 or email technical@etiltd.co.uk

Operating Instructions Product code: 801-590

This non-contact digital forehead thermometer is intended for the intermittent measurement of human body temperature in people of all ages.

OPERATING INSTRUCTIONS FOR FOREHEAD USE - Press to turn on the instrument. Hold the instrument within 4 cm from the centre of the forehead and press and hold 'Start' until you hear one beep (unless muted) to indicate the reading is complete. Readings should take approximately one second. The instrument will automatically turn off after 60 seconds. Manually turn the instrument off by pressing and holding the to five seconds.

The temperature displayed is the "oral equivalent" value. If the temperature is above 37.5 °C (99.5 °F) you will hear three short beeps followed by one long beep.

△ FOR BEST RESULTS - Keep the forehead area clean. Keep away from sweat, cosmetics, and scars while taking measurements. Please remain in a stable environment for five minutes, and avoid exercising, bathing, or showering for 30 minutes, which can artificially raise your temperature.

SPECIFICATIONS

Forehead range 34 to 42.2 °C (93.2 to 108 °F)

Surface range -22 to 80 °C (-7.6 to 176 °F)

Operating range 10 to 40 °C (50 to 104 °F) 15 to 85 %rh

Storage range -20 to 50 °C (-4 to 122 °F), < 85 %rh

Transport. temp Shall be less than 70 °C (158 °F), 95 %rh

Atmospheric pressure 800 to 1013 hPa

Forehead accuracy ± 0.2 °C (0.4 °F) within 35 to 42 °C

(95 to 107.6 °F) Otherwise ±0.3 °C (0.5 °F) Surface accuracy ±0.3 °C (0.5 °F) with 22 to 42.2 °C (17.6 to 108 °F)

Otherwise ±4% or ±2 °C (±4 °F),

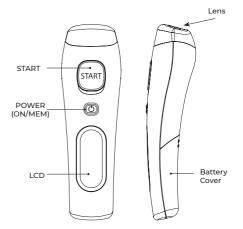
whichever is greater

Resolution 0.1 °C/°F
Units °C/°F
Response time 1 second
Auto-Off 60 seconds

Battery 2 x 1.5 volt AAA - 3000 hours

Dimensions 40.2 x 48 x 158 mm
Weight 100 grams
Expected service life 4 years

FEATURES



GUARANTEE - This instrument carries a one-year guarantee against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ETI, be either repaired or replaced without charge. The product guarantee does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. Full details of liability are available within ETI's Terms & Conditions of Sale at etiltd.com/terms. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

STORAGE & CLEANING- The instrument should be stored at room temperature, away from liquids and direct sunlight. If there are any temperature differences between the place where the instrument is stored and where you are going to measure, please allow the instrument to stabilize to the ambient temperature for at least 15 minutes. Holding the instrument too long may cause a higher ambient temperature reading. This could make the body temperature measurement lower than usual.

The sensor lens is the most delicate part of the instrument and should be kept clean at all times. Care should be taken when cleaning the lens to avoid damage. Use only a soft cloth or cotton swab with medical alcohol, allowing the lens to dry fully before using the instrument again.

FUNCTIONS

Forehead temperature	This instrument has been designed for personal use. It is not meant to replace a visit to the doctor. Please compare the measurement result to your regular body temperature. Consult with your doctor if you have health concerns.	وق ي
Surface temperature	Surface mode shows the actual and unadjusted surface temperature, which is different from the body temperature. To access surface mode, press and hold \(\bigcup\) while pressing 'Start' once. You will see the \(\frac{1}{2}\) on the display. Press and hold 'Start' for continuous surface measurements.	(25.0° = 000)
High temp alert	If the thermometer detects a temperature of > 37.5 °C (99.5 °F) using forehead mode, you will hear three short beeps followed by one long beep.	31.B.a.
Memory locations	You can store 25 of the most recent temperature readings. To access these, start with the instrument turned on and press once. The saved reading will display indicated by the cicon. Press again to advance through saved readings	<u> 35.8°</u>
Switch °C/°F	Start with the instrument turned off. Press and hold 'Start' for approximately 3 seconds while pressing the 🖒 once. The icon will switch from °C to °F. Complete the process again to switch back to °C. Please Note: All stored memory readings will be deleted when switching between units.	(se 7°
Mute	The default setting is for sound on. To turn the sound off, press and hold the 🕒 button for 3 seconds. The 🌂 icon will flash on the display and the instrument is muted. Complete the process again to turn the sound on and unmute the instrument.	C C C C C C C C C C C C C C C C C C C

BATTERY REPLACEMENT - When the "Low Battery" icon flashes, the batteries should be replaced immediately with 2 x AAA, 1.5 volt batteries. To open the battery cover, use your thumbs to press down and slide the battery cover off. Remove and properly dispose the used batteries promptly, keeping away from children. Insert the new batteries according to the correct polarity. Replace the battery cover.

TROUBLESHOOTING

Er 1 Er 3	Er1 is displayed when the measurement was taken before the instrument had stabilized. Er3 is displayed when the ambient temperature is not between 10 to 40 °C (50 to 104 °F). The instrument should always be allowed plenty of time (minimum of 15 minutes) to stabilize to the ambient temperature.
Er	Error 5-9 is displayed for all other error messages; it is necessary to reset the thermometer. To reset the thermometer, turn it off and remove the batteries for at least one minute. Reinsert the batteries and turn on. If the error message remains, please contact our technical sales office on: technical@etiltd.co.uk for further assistance.
H, Lo	'Hi' or 'Lo' is displayed when the temperature being measured is outside of the measurement range. In forehead mode this is lower than 34 °C (93.2 °F) or higher than 42 °C (108 °F). In surface mode this is lower than –22 °C (–7.6 °F) or higher than 80 °C (176 °F).
(B8.8 [§] 2)	Instrument cannot be powered on. Please try a new battery.
**************************************	Replace batteries

SYMBOL DESCRIPTIONS

\triangle	Warning: No modification of this equipment is allowed	[]i	Please read the instructions for use	ტ	Power/Memory
沈	BF type applied part	ć,	Paper recycling	A	Battery recycling
IP22	Classification for water ingress and particulate matter	C € 1639	The CE mark and Notified Body Registration Numbers, the requirement of Annex II from Medical Device Directive 93/42/EEC are met.		Indicates this device is subject to the Waste Electrical and Electronic Equipment Directive in the European Union. To protect the environment, dispose of useless device at appropriate collection sites according to national or local regulations.

Manufacturer's declaration - electromagnetic emissions

The non-contact forehead thermometer is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the non-contact forehead thermometer should assure that it is used in such an environment.

Emissions test Compliance		Electromagnetic environment – guidance (for home healthcare environment)		
RF emissions CISPR 11				
RF emissions CISPR 11	Class B	The non-contact forehead thermometer is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.		

Manufacturer's declaration - electromagnetic immunity

The non-contact forehead thermometer is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the non-contact forehead thermometer should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance (for home healthcare environment)
Electrostatic discharge (ESD) IEC 61000-4-2	Contact±8 kV Air±2 kV,±4 kV,±8 kV,±15 kV	Contact±8 kV Air±2 kV,±4 kV,±8 kV,±15 Kv	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Power frequency (50, 60 Hz) magnetic field IEC 61000-4-8	30 A/m 50 Hz or 60 Hz	30 A/m 50 Hz and 60 Hz	The non-contact forehead thermometer power frequency magnetic fields should be at levels characteristic of a typical location in a typical home healthcare environment.

Manufacturer's declaration - electromagnetic immunity

The non-contact forehead thermometer is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the non-contact forehead thermometer should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance (for home healthcare environment)		
			Recommended separation distance:		
			$d = 1,2 \sqrt{P}$		
Radiated RF IEC 61000 -4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz	d = 1,2		
	SO SYMMETRIE	80 % AM at 1 kHz	Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range. b Interference may occur in the vicinity of equipment marked with the following symbol:		

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the non-contact forehead thermometer is used exceeds the applicable RF compliance level above, the non-contact forehead thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the non-contact forehead thermometer.

Recommended separation distances between portable and mobile RF communications equipment and the non-contact forehead thermometer

The non-contact forehead thermometer is intended for use in an electromagnetic environment (for home healthcare) in which radiated RF disturbances are controlled. The customer or the user of the non-contact forehead thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the non-contact forehead thermometer as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output	Separatio	n distance according to frequency of tra	ansmitter - m			
power of transmitter	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,7 GHz			
w	$d = 1,2 \sqrt{P}$	d = 1,2 √P	d = 2,3 √P			
0,01	N/A	0,12	0,23			
0,1	N/A	0,38	0,73			
1	N/A	1,2	2,3			
10	N/A	3,8	7,3			
100	N/A	12	23			

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects & people.

Manufacturer's declaration-electromagnetic immunity Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

The non-contact forehead thermometer is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the non-contact forehead thermometer should assure that it is used in such an environment.

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	Immunity test level (V/m)	Compliance (V/m) (for home healthcare)	
385	380–390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27	27	
450	430–470	GMRS 460, FRS 460	FM c) ±5 kHz deviation 1 kHz sine	2	0,3	28	28	
710			Pulse modulation b)	0,2	0,3	9	9	
745	704–787	LTE Band 13,17						
780			217 Hz					
810		GSM 800/900, TETRA 800,	Pulse					
870	800-960		modulation b) 18 Hz	2	0,3	28	28	
930								
1720		GSM 1800; CDMA 1900; 1700–1990 GSM 1900; DECT;		A 1900:				
1845	1700–1990		Pulse modulation b) 217 Hz	2	0,3	28	28	
1970		LTE Band 1, 3, 4, 25; UMTS	217 円2					
2450	2400–2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0,3	28	28	
5240		WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0,2	0,3	9	9	
5500	5100-5800							
5785								

NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

- a) For some services, only the uplink frequencies are included.
- b) The carrier shall be modulated using a 50 % duty cycle square wave signal.
- c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be the worst case.

This is not as AP or APG product.

This device should not submerge into any liquids and expose it to direct moisture.

There is no gender or age limitation for using the infrared thermometer.

Choking from swallowing small parts and batteries by children or pets is possible, please keep small parts and batteries at places where children and pets can't reach.

Supplied by Electronic Temperature Instruments Ltd

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Medical Technology Promedt Consulting GmbH Add: Altenhofstrasse 80, D-66386 St. Ingbert, Germany

11.05.20

Radiant Innovation Inc. Http://www.radiantek.com.tw Add: 1F, No.3, Industrial East 9th Road, Science-Based Industrial Park, HsinChu, Taiwan, 300.



CERTIFICATE OF CONFORMITY

Order Code: 801-590

Non-Contact Forehead Thermometer

CE 1639 approved

Manufactured in accordance with Class II EU Medical Device Directives 93/42 EEC

Range: Forehead 34 to 42.2 °C (93.2 to 108 °F)

Surface -22 to 80 °C (-7.6 to 176 °F)

Resolution: 0.1 °C/°F

Accuracy: Forehead mode: ±0.2 °C (0.4 °F)

within 35 to 42 °C (95 to 107.6 °F).

Otherwise ±0.3 °C (0.5 °F)

Surface mode: ± 0.3 °C (0.5 °F) with 22 to 42.2 °C

(17.6 to 108 °F).

Otherwise ±4% or ±2 °C (±4 °F),

whichever is greater

Made in China Conforms to RoHS & REACH Legislation Conforms to EC Reg 1935/2004 & EU Reg 10/2011

DECLARATION OF CONFORMITY

We certify that the goods shown on this certificate are manufactured, tested, inspected and stored, to conform in all respects to the stated specifications and in accordance with the Quality System of ETI Limited, accredited to BS EN ISO 9001, as approved and audited by the British Standards Institution.

We also confirm that when used in an appropriate manner, the instruments are suitable for use within the Food Industry, and also, where appropriate and required, comply with EEC Directives with regard to European Legislation and CE Marking requirements. Including EC Regulation No 1935/2004 on Materials and articles intended to come into contact with food; & Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

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CERTIFICATE OF CONFORMITY

All ETI supplied instruments are suitable for use within HACCP plans where the quoted specification for critical control points match the performance of the instrument.

Signed, on behalf of Electronic Temperature Instruments Ltd



Andy Reid Quality Manager Valid as of date of purchase.

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