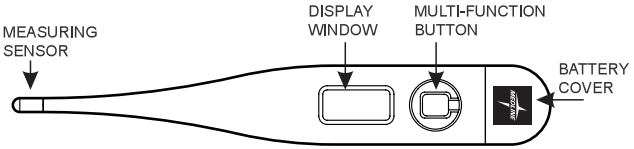
ORAL DIGITAL THERMOMETER



Please read this instruction manual
before using the thermometer, and keep it for future reference.

SAFETY INFORMATION:

- High, prolonged fever requires medical attention, especially for young children. Please contact your physician, if you are experiencing high and/ or prolonged fevers.
- Do not allow children to take their temperatures unattended.
- Read the enclosed instructions carefully to ensure accurate temperature readings. Temperature readings are affected by many factors including exercise, drinking hot or cold beverages prior to taking a reading, as well as technique.
- Do not allow children to walk or run while taking their temperature, as the thermometer could pose as a choking hazard.
- Oral, underarm, and rectal temperatures vary by approximately 1°F (0.5°C).
- Keep battery away from children. The battery is harmful if swallowed.
- Do not open the thermometer except to replace the battery.

SPECIAL PRODUCT FEATURES:

- Beeps when reaches high temperature.
- Convenient MEMORY FEATURE: Automatic recall of last temperature taken.
- Reads temperature in Fahrenheit or Celsius.
- Low Battery Indicator "▮".
- Auto-Off in approximately 10 minutes.
- Oral, Rectal or Underarm use.

⎓	Direct Current	LOT	Batch Code
	Type BF Applied Part		Manufacturer
	Consult Accompanying Documents	-20℃ ~55℃	Storage and Transportation Temperature Limit:-4°F~131°F (-20°C~55°C)

HOW TO CARE FOR THIS PRODUCT:

- Use of probe covers is recommended to help avoid spreading germs, and to keep the thermometer clean.
- The thermometer should be cleaned after use even when probe covers are used.
- Store the unit in the protective case while not in use.
- Do not store or keep in direct sunlight, or in high temperatures.
- Thermometer must be stored in temperatures ranging from 41°F to 104°F.
- Do not drop the thermometer, as this may break the unit.

CLEANING AND DISINFECTION

Wipe the thermometer with a soft clean cloth.
For stubborn stains, wipe the thermometer with a cloth that has been dampened with water or a neutral detergent solution and then wring thoroughly. Finish by wiping with a soft dry cloth.
For disinfection, 70% Ethanol or Isopropyl alcohol can be used.
Observe the following to prevent damage to the thermometer.
- Do not use benzene, thinner, gasoline or other strong solvents to clean the thermometer.
- Do not attempt to disinfect the sensing section (tip) of the thermometer by immersing in alcohol or in hot water (water over 122°F (50°C))
- Do not use ultrasonic washing to clean the thermometer

WHAT IS A "NORMAL" TEMPERATURE?:

Temperature readings vary in different individuals. A normal temperature refers to each individual's average temperature while they are well. Normal average temperatures range from 96.3°F/35.7°C to 99.1°F/37.3°C when taken orally. From an oral temperature, you may calculate a rectal equivalent temperature by adding 1°F/0.5°C, while an underarm temperature requires subtracting 1°F/0.5°C. For example, if your oral temperature is 98.6°F/ 37°C, this is the same as a rectal temperature of 99.6°F/37.5°C, or an underarm temperature of 97.6°F/36.4°C.

RECALIBRATION: Recalibration can only be done by a trained technician.
It is recommended that this be done every two years.

HOW TO TAKE TEMPERATURE:

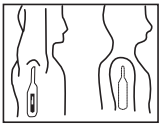
1. Place a probe cover carefully over the tip. You can choose to take oral, underarm, or rectal measurements.

2. Push the multi-function button located besides the display window. The thermometer will beep and the display will read: "188.8 °. This is a function check indicating the unit is working properly. If a reading is in the memory the thermometer will display the last temperature for three seconds. Next the thermometer will read L°F (or L°C).
3. The °F or °C symbol will flash when the unit is ready to measure temperature. Please note that the "6" indicates a low battery. See instructions for replacing the battery before measuring temperature. Do not expect an accurate temperature reading if this low battery indicator is present. An "ERR" message in the window indicates your unit is not functioning properly.

ORAL USE: (for children four years or older)

- Do not drink hot or cold fluids, exercise, smoke, or perform other activities that will raise or lower temperature readings when compared to your normal, average temperature.
- Place the probe tip well under the tongue (See diagram) as indicated by the "√". The mouth should remain closed up to 5 minutes before attempting a reading. Instruct children not to bite down on the probe.
- Recommend to keep the probe in mouth and rectum about 2 minutes, or in armpit about 5 minutes regardless of the beep sound and at least 30 seconds measurement interval should be maintained.

UNDERARM (AXILLARY) USE:



- Wipe underarm with a dry towel.
- Place probe tip in armpit and bring arm down against the body. The measuring sensor should be pointing upward in the same direction as your body, if possible.
- The time required for an accurate underarm temperature may be 90 seconds or longer depending on the placement of the probe and closure of the arm against the body. Normal temperature between 95.4°F and 98.1°F 35.2°C and 36.7°C.

RECTAL USE:

- Commonly used for babies, young children, or when it is difficult to take an oral or underarm temperature.
- After placing the probe cover on the thermometer, lubricate the outside of the probe with a water-soluble solution.
- Gently insert the probe tip no more than app 1 cm less than 1/2 inch into the rectum. Do not force the tip into the rectum if resistance is encountered. Dispose of the used probe cover and wash the thermometer as recommended.

4. When peak temperature is reached, the °C or °F symbol will stop flashing, and the thermometer will beep repeatedly. Please note: It is not necessary to hear the beep to ensure the peak temperature has been reached. When the °C or °F symbol stops flashing and the display reads a consistent temperature, the peak temperature has been reached.
5. Read and record the temperature and time for reference. The reading will automatically be stored in the memory.
6. Push the multi-function button to turn the unit off. If you do not turn the unit off, it will shut off automatically in approximately 10 minutes. Normal temperature between 95.4°F and 98.1°F, 35.2°C and 36.7°C.

CHANGING THE BATTERY:

When the "▮" appears in the lower right of the display, the battery is exhausted and needs replacing. Make sure a battery of the same type is on hand and proceed as follows: Remove battery UCC392 compartment lid. Use a small Phillips screwdriver to remove battery. Insert new equivalent battery type (1.55v, LR41 or SR41). Ensure the battery is correctly positioned with the "+" facing up or towards the back of the unit. Carefully replace the battery compartment lid. Properly dispose of the batteries, keeping them from small children and heat.

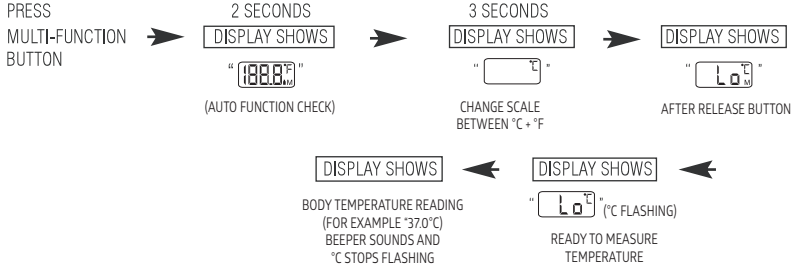
TECHNICAL SPECIFICATIONS

Type:	Maximum thermistor digital thermometer
Measure Range:	90.0°F-109.9°F(32.0°C42.9°C) (°C / °F chosen by manufacturer)
Accuracy:	±0.2°F(±0.1°C) during 95.9°F~107.6°F(35.5°C~42.0°C) at 64.4°F~82.4°F(18°C~28°C) ambient operating range ±0.4°F(±0.2°C) for other measuring and ambient operating range
Operating mode:	Direct Mode
Display:	Liquid crystal display, 3 ½ digits
Memory:	For storing the last measured value
Battery:	One 1.5 V DC. button battery (size LR41 or SR41, UCC 392)
Battery life:	Approx. 200hours of continuous operation or 1 year with 3 measurements per day
Dimension:	12.3cm x 1.8cm x 0.9cm (L x W x H)
Weight:	Approx. 10 grams including battery
Expected service life:	Three years
Ambient operating range:	Temperature: 41°F~104°F(5°C~40°C) Relative humidity: 15%~95%RH Atmospheric Pressure : 700hPa ~ 1060hPa
Storage and transportation condition:	Temperature:-4°F~131°F (-20°C~55°C) Relative humidity: 15%~95%RH Atmospheric Pressure : 700hPa ~ 1060hPa
Ingress Protection Rating:	IP 22
Classification:	Type BF
Distributor:	Medline Industries, LP, Three Lakes Drive, Northfield, IL 60093 USA

GUARANTEE:

Medline Industries, LP warrants this precision digital thermometer against any defects in material and workmanship for a period of one (1) year after the date of purchase. This guarantee excludes cases of freight damage, complete water immersion, tampering, clear abuse, misuse, or accidents, Medline Industries, LP will, at its discretion, repair or replace this thermometer during the warranty period without charge. Claims must be filed together with proof of purchase within this warranty period. Battery life and/or function is not included under this warranty. Claims under the warranty in excess of the purchase price of the merchandise are void. No representative or person is authorized to assume for us any liability in connection with the sale of the products of Medline Industries, LP. This warranty gives you specific legal rights, and you may also have other rights that may vary from state to state. Prior to shipping any product, please contact either Medline Industries, LP, at 1-800-MEDLINE or an authorized Medline sales representative with any warranty concerns.

OPERATION OF THE °F °C FEATURE (How to change the measuring scale)



ELECTROMAGNETIC COMPATIBILITY INFORMATION

The device satisfies the EMC requirements of the international standard IEC 60601-1-2. The requirements are satisfied under the conditions described in the table below. The device is an electrical medical product and is subject to special precautionary measures with regard to EMC which must be published in the instructions for use. Portable and mobile HF communications equipment can affect the device. Use of the unit in conjunction with non-approved accessories can affect the device negatively and alter the electromagnetic compatibility. The device should not be used directly adjacent to or between other electrical equipment.

Table 1

Guidance and declaration of manufacturer-electromagnetic emissions		
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment guidance
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The device 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.
Harmonic emissions IEC 61000-3-2	N/A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	N/A	

Table 2

Guidance and declaration of manufacturer-electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ±2 kV,±4 kV, ±8 kV, ±15 kV air	± 8 kV contact ±2 kV,±4 kV, ±8 kV, ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrostatic transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	N/A	
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	N/A	
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	< 5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycle 70% UT (30% dip in UT) for 25 cycle <5% UT (>95% dip in UT) for 5 secretary	N/A	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m; 50Hz or 60Hz	30 A/m; 50Hz or 60Hz	Power frequency magnetic fields should be at levels charactertic of a typical location in a typical commercial or hospital environment.

Table 3

Guidance and declaration of manufacturer-electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 Mhz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended seperation distance $d = [\frac{3.5}{E_1}]\sqrt{P}$ 80 MHz to 800 MHz $d = [\frac{7}{E_1}]\sqrt{P}$ 800 MHz to 2.7 Ghz 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. Interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 Ghz	10 V/m	
RF Wireless Communication Equipment IEC 61000-4-3	380MHz, 27V /m 450MHz, 28V /m 710MHz,745 MHZ,780MHz 9V/m 810MHz,870 MHZ,930MHz 28V/m 1720MHz,1845 MHZ,1970MHz 28V/m 2450MHz, 28V /m 5240MHz,5500 MHZ,5785MHz 9V/m	380MHz, 27V /m 450MHz, 28V /m 710MHz,745 MHZ,780MHz 9V/m 810MHz,870 MHZ,930MHz 28V/m 1720MHz,1845 MHZ,1970MHz 28V/m 2450MHz, 28V /m 5240MHz,5500 MHZ,5785MHz 9V/m	

Table 4

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

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m	
	80 MHz to 800 MHz $d = [\frac{3.5}{E_1}]\sqrt{P}$	800 MHz to 2.7 GHz $d = [\frac{7}{E_1}]\sqrt{P}$
0.01	0.12	0.23
0.1	0.38	0.73
1	1.2	2.3
10	3.8	7.3
100	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.

NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

TROUBLESHOOTING

Error message	Problem	Solution
Lo	Temperature taken is lower than 90.0°F(32.0°C)	Turn off, wait one minute and take a new temperature via close contact and sufficient rest.
Hi	Temperature taken is higher than 109.9°F(42.9°C)	Turn off, wait one minute and take a new temperature via close contact and sufficient rest.
Err	The system is not functioning properly.	Unload the battery, wait for 1 minute and repower it. If the message reappears, contact the retailer for service.
	Dead battery: Battery icon is flashing, can't be measurable.	Suggest to replace the battery.

REF MDS9655

Manufactured for: Medline Industries, LP,
Three Lakes Drive, Northfield, IL 60093 USA. Made in China
www.medline.com 1-800-MEDLINE V2 RK22SEY