

**M700 SERIES  
DIGITAL THERMOMETERS  
INSTRUCTION MANUAL**

**M700**

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# M700 SERIES PRODUCT DESCRIPTION

## GLA M700 SERIES DIGITAL THERMOMETERS

### M700 THERMOMETER FEATURES

8 to 15 Second Temperature  
Fahrenheit or Celsius Temperature Mode  
Audible Peak Hold Temperature Beep (1)  
Audible Low Battery Warning Beep (2)  
Peak Hold Temperature Mode indicated by flashing decimal point  
Continuous Temperature Mode (indicated by **CO**)  
Calibration Check Position  
Self re-setting fuse  
Continuous light sensing display  
Charging Indicator  
Battery Voltage Indicator  
**Err1** Reading when probe is not attached or not reading properly  
**Err2** Reading when low battery is detected  
Automatic shut-off after five minutes

### M750 THERMOMETER FEATURES

*Additional Features Found on the M750*

Automatic shut-off after five minutes or determined by customer via software  
RS232 Port Built into unit  
RFID Reader Compatible thru RS232 Port  
1023 Temperature and ID storage locations (December 2005)  
Temperature, ID, time stored as a space delimited ASCII file  
9600 Baud rate  
Information stored as:  
    Tag ID #  
    Date  
    Time  
    Temperature  
Real Time Clock Feature  
User determined features through software  
    Audible Peak Hold Temperature (On / Off)  
    Fahrenheit or Celsius  
    Automatic Shut-off time  
Confirmation audio signal of RFID tag being read  
Last four digits of tag numbers displayed on LED display, full number stored in memory

### M700 THERMOMETER PACKAGE INCLUDES

GLA M700 Thermometer  
GLA M207R or M207S Probe  
GLA C725 or C725C Battery Charger  
GLA M700 Thermometer Instruction Manual / Quick Instructions Sheet

### GLA M207 SERIES OF PROBES

The M207 Series of Probes has been designed for accurate rectal temperaturing of bovine, equine, swine, sheep, and small animals in an efficient manner. The M207 probe is available in either a right angle (M207R) or straight design (M207S). Sizes available include:

M207R Right Angle Probe (42°)  
    4.0" Right Angle Probe (10cm)  
    3.0" Right Angle Probe (7.6cm)  
M207S Straight Probe

4.0" Straight Probe (10cm)  
3.0" Straight Probe (7.6cm)  
1.5" Straight Probe (3.85cm)  
M207C Custom Probe  
Call for details

### **GLA C725 AND C725C BATTERY CHARGERS**

C725 Charger  
US standard, 115VAC 60 Hz, wall plug-in  
C725C Charger (Adapters available)  
International standard, 230VAC 50 Hz, wall plug-in

GLA M207 Probes and C725 Chargers can be purchased separately as needed.

### **ACCESSORIES**

#### **GLA H300 LEATHER HOLDER**

Leather holder, allows proper reading of LED Display in any position  
Leather strap allows it to be fitted to most belts / pipes / squeeze chutes

#### **B601 BATTERY PACKS**

5 Cell NiCad Battery Pack

#### **T-SHIRTS**

*GLA M700 / 750 – the best in the end – just got better*  
Call for available colors

## **OPERATING AND MAINTENANCE INSTRUCTIONS**

### **M700 THERMOMETER**

The M700 Series Thermometers are designed to be accurate, fast, durable, and easy to use. All M700 Thermometers can temperature in either Fahrenheit or Celsius. The following information will allow you to understand and use your new M700 Thermometer.

## **CONTROLS, INITIAL SETUP, AND USE**

### **SWITCHES and CONNECTORS**

#### **ROTARY SWITCH FUNCTIONS – Four Positions (Control Knob)**

**0 - OFF**

**I – CO** – Continuous Temperature Position (indicated by **CO**)

**II – PH** – Peak Hold Temperature Position (indicated by **PH**)

**III - F°** (Fahrenheit) or **C°** (Celsius) / Battery Voltage

Positions indicated by label on the top of the M700 Bezel

<b>0</b>	<b>I</b>	<b>II</b>	<b>III</b>
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#### **PUSHBUTTON FUNCTIONS**

**0 - Calibration** Check (probe not attached only)

**III** – Switches from **F°** (Fahrenheit) or **C°** (Celsius)

#### **PROBE CONNECTOR**

The M207 Probe attaches to this connector, the larger of the two connectors on the top of the unit.

If no probe is attached LED Display will read **Err1** in Position **I** and **II**

### CHARGER CONNECTOR

The C725 or C725C Charger attaches to this connector, the smaller of the two connectors on the top of the unit. Attach the C725 or C725C Charger to the charger post and plug into a wall socket.

If the unit is OFF, and a charger is attached, charging will be indicated by a rotating LED Segment, as well as the far right decimal point flashing. When the unit is fully charged the LED segment will stop rotating and the decimal point will stop flashing. After a complete full charge, the unit will beep once and read FULL on the screen. FULL will then go off the screen. The charging cycle will begin again when the M700 senses a significant drop in battery voltage. If the unit is ON, charging will be indicated by the far right decimal point being lit. Note: If the battery is very discharged, it may take up to one minute before the charging lights appear. Make sure the M700 Thermometer is fully charged before using it the first time. The M700 will charge while turned on, however it will charge at a faster rate if the M700 is turned off.

## INITIAL SETUP

### FACTORY SETTINGS

Audible Beep when Peak Hold Temperature is reached.  
Automatic Shut-off after 5 minutes of inactivity.  
Peak Hold Temperature Stabilizes at two seconds.

### M207 PROBE NOT ATTACHED

Positions indicated by label on the top of the M700 Bezel

<b>0</b>	<b>I</b>	<b>II</b>	<b>III</b>
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#### Position 0 – OFF or Calibration check

With Control Knob in **OFF** position, depress and hold the Pushbutton Switch, the LED display should read **100.0** indicating correct calibration. If your M700 does not read 100.0, please read FAQ pages for directions.

Turning the Control Knob back to this position, the LED display will read **OFF** or the screen will go blank and the unit will shut off.

#### Position I – Continuous Temperature (indicated by CO)

With the Control Knob in this position, the LED display will read **700 - CO - Err1**. This indicates the model number, continuous temperature and that there is no probe attached. Turning the Control Knob back to Position **0**, the LED display will read **OFF** or the screen will go blank and the unit will shut off.

#### Position II – Peak Hold Temperature Position (indicated by PH)

With the Control Knob in this position the LED display will read **700 - PH - Err1**. This indicates the model number, Peak Hold Temperature Position and that there is no probe attached. Turning the Control Knob back to Position **0**, the LED display will read **OFF** or the screen will go blank and the unit will shut off.

#### Position III -Fahrenheit or Celsius – Battery voltage position

With the Control Knob in this position the LED display will read **700 - Fx.xx** (Fahrenheit – voltage) or **Cx.xx** (Celsius – voltage). The actual battery voltage will be the number indicated after the **F** or **C** indicator. In this position, if you depress and hold the Pushbutton Switch for

twenty (20) seconds, the LED display will read **F1.01** (Fahrenheit) and will then switch to Celsius mode; this will be confirmed by an audible beep. If the unit is in Celsius, depress and hold the Pushbutton Switch for twenty (20) seconds, the LED display will read **C1.01** (Celsius) and will then switch to Fahrenheit, this will be confirmed by an audible beep. Turning the Control Knob back to Position **0**, the LED display will read **OFF** or the screen will go blank and the unit will shut off. (F1.01 / C1.01 are the current software revisions – and are subject to change).

## M207 PROBE ATTACHED

Attach the M207 Probe. To attach the probe, screw the probe connector onto the mating receptacle connector. The probe should be attached FINGER TIGHT ONLY. Do not over tighten. The cord should be able to rotate freely on the connector.

Positions indicated by label on the top of the M700 Bezel

<b>0</b>	<b>I</b>	<b>II</b>	<b>III</b>
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### Position 0 – OFF

The calibration check will **NOT** work with a M207 probe attached. The number displayed on the LED display is irrelevant and will be different with any individual probe – it does **NOT** indicate any sort of calibration number.

### Position I - Continuous Temperature (indicated by **CO**)

With the Control Knob in this position, the LED display will read **700 - CO - xxx.x** followed by the continuous temperature. In this position, the temperature will climb or drop based on the temperature the M207 probe is sensing. Inserting the probe into an animal will cause the temperature to climb; removing the probe will cause the temperature to drop. In this position the temperature may not stabilize. Turning the Control Knob back to Position **0**, the LED display will read **OFF** or the screen will go blank and the unit will shut off.

### Position II – Peak Hold Temperature Position (indicated by **PH**)

With the Control Knob in this position the LED display will read **700 - PH - xxx.x** followed by the continuous temperature. The M700 may beep when turned to this position if the unit is at a stable or “peak” temperature. Inserting the probe into an animal will cause the temperature to climb, and show a rapid flashing of the decimal point and when the Peak Hold Temperature is reached, the decimal point will stop flashing, followed by an audible beep. To reset the Peak Hold Temperature, turn the Control Knob to **CO (I)** position and then turn the Control Knob back to **PH (II)**. Turning the knob back to Position **0**, the LED display will read **OFF** or the screen will go blank and the unit will shut off. The Peak Hold Temperature will hold on the screen until reset. When using the Peak Hold Temperature position, the temperature will stay displayed on the screen, until the probe is removed and a 2.0° temperature variation is detected or the probe is inserted into the next animal. The temperature will then reset to continuous temperature and then begin to climb to the new animal’s temperature.

### Position III - Fahrenheit or Celsius – Battery voltage position

With the Control Knob in this position the LED display will read **700 - Fx.xx** (Fahrenheit – voltage) or **Cx.xx** (Celsius – voltage). The actual battery voltage will be the number indicated after the **F** or **C** indicator. In this position, if you depress and hold the Pushbutton Switch for twenty (20) seconds, the LED display will read **F1.01** (Fahrenheit) and will then switch to Celsius mode, confirmed by an audible beep. If the unit is in Celsius, depress and hold the Pushbutton Switch for twenty (20) seconds, the LED display will read **C1.01** (Celsius) and will then switch to Fahrenheit this will be confirmed by an audible beep. Turning the knob back to Position **0**, the LED display will read **OFF** or the screen will go blank and the unit will shut off. (F1.01 / C1.01 are the current software revisions – and are subject to change)

## INITIAL USE

After charging, turn the unit ON. Turn the Control Knob to the **CO (I)**. The display should read continuous air temperature (**if no probe attached the display will read Err1**).

To take a temperature, insert the probe and the display reading will begin to climb. In approximately 8 to 15 seconds your reading will start to slow. Removing the probe will cause the temperature to begin dropping.

To use the **Peak Hold Temperature** mode, turn the Control Knob to the **PH (II)**. Insert the probe, the decimal point will flash rapidly until the Peak Hold Temperature is measured, when the highest temperature is reached, the decimal point will stop flashing and an audible beep will be heard. The temperature will remain on the screen for five minutes. To reset the displayed temperature, turn the Control Knob one position to **CO (I)**.

To check Battery Voltage, turn the Control Knob to the **BATT (III)**. The LED Display will display your battery voltage. 7.0 is fully charged, below 5.8 indicates a low battery. A discharged battery will be indicated by **Err2** and an audible beep.

To switch the M700 from Fahrenheit to Celsius, turn the knob to the **BATT (III)**, depress the PUSHBUTTON Switch the display will read **F1.00** for 20 seconds, the unit will beep and the display will now read **C1.01**.

To switch the M700 from Celsius to Fahrenheit, turn the Control Knob to the **BATT (III)**, depress the PUSHBUTTON Switch the display will read **C1.01** for 20 seconds, the unit will beep and the display will now read **F1.01**.

The M700 will shut off automatically after five minutes of inactivity. You must turn it back **ON** to take another temperature.

If the unit shuts-off due to inactivity while in the **CO (I)**, turning the Control Knob to the **PH (II)** will turn the unit back on. Or you may turn the Control Knob to the OFF position and back to the **CO (I)**.

If the unit shuts-off due to inactivity while in the **PH (II)** position, turning the Control Knob to either the **BATT (III)** or **CO (I)** will turn the unit back on.

To recharge the battery pack, attach the charger connector onto the mating connector on the top left of the M700 Thermometer. Tighten FINGER TIGHT ONLY, to avoid breaking the connector. Plug charger into wall outlet. Charging will be indicated by a rotating LED. If the battery pack fails to hold a charge after being adequately charged, the battery pack may need to be replaced. If you do not get any indication of the charging display, the charger may need to be replaced.

YOU MAY USE THE M700 WITH THE CHARGER ATTACHED AND PLUGGED IN AT ALL TIMES. USING THE M700 THIS WAY DISABLES THE AUTOMATIC OFF FEATURE. TO TURN THE M700 OFF, TURN THE CONTROL KNOB TO THE OFF (O) POSITION.

Due to the microprocessor construction of the M700 Series of Thermometers, the M700 does a "self check" and "self calibration" each time the unit is turned on. You may check calibration by depressing the Push Button Switch while in the OFF Position (M207 Probe must **NOT** be attached). In this position the unit should read 100.0 if calibrated properly.

## **BASIC CARE AND MAINTENANCE**

Use your battery voltage reading to guide your recharge levels, 6.5 -6.9 volts indicates a full charge, 6.0 - 6.4 volts is normal, <6.0 volts is low, <5.5 is discharged. If your batteries fail to hold a charge, it usually indicates a dead cell in the battery pack, which will then need to be replaced.

When your battery pack does need replacing, you may send it to GLA and we will replace it for a nominal charge, or you may order a new battery pack directly from GLA, or from an authorized GLA distributor. When you order a battery pack directly from GLA, installation instructions will be included. **NOTE:** Soldering is required to replace the battery pack. **It is very important to follow the battery installation directions, very carefully, step by step.**

Treat your probe and cord assembly with care. Over-stretching the retractable cord will inevitably break the internal wires. If the probe tip is allowed to strike a hard surface such as concrete, the high impact pressure will often destroy the sensing element. **DO NOT EXPOSE PROBES TO TEMPERATURES ABOVE 200° FAHRENHEIT (95° CELSIUS), AND DO NOT AUTOCLAVE OR HEAT STERILIZE YOUR PROBES.** High temperatures such as these will damage the probe tip and require its replacement. If your Probe, cord, or connector is damaged your LED Display will indicate a **Err1** display. You will only see **Err1** readings in Position **I** or **II**.

When using your M700 Series Thermometer outside, protect the unit from rain or extreme water exposure. The thermometer housing is splash-proof, but it is not designed to be continually exposed to high moisture situations or drenching.

Should your thermometer become wet inside, carefully remove the bottom four screws and bottom plate, (trying not to damage the bottom gasket). Next remove the six window screws (note: they are different sizes than the bottom screws), gently push the window down, firmly grasp the bezel of the unit and slide it out of the box. Let any water in the unit drain out and allow the unit to dry overnight in a warm dry location. You may also use compressed air to dry the unit. Carefully reassemble the unit. Your thermometer may continue to work properly if the water damage has not been too severe. If your thermometer does not work after these steps, please return your thermometer to GLA.

**NO OTHER DISASSEMBLY SHOULD BE ATTEMPTED. DUE TO THE MICROPROCESSOR OPERATION, IT IS IMPORTANT THAT ANY FURTHER REPAIR BE DONE ONLY BY A QUALIFIED ELECTRONICS TECHNICIAN, PREFERABLY A GLA REPAIR TECHNICIAN.**

Do not store your M700 Series Thermometer in vehicles or in outdoor sheds where temperatures may become very high. Ideally the thermometer should be stored in locations that do not exceed 115° Fahrenheit (45° Celsius).

Most GLA M700 Thermometers and M207 Probes can be repaired when necessary. If you feel that you have a damaged unit, please send it to the factory for repair.

With a minimum of care and maintenance, your M700 Series Thermometer should give you many years of service. We are always available to answer any questions you may have regarding our products.

## **REPAIR PRACTICES**

GLA has been manufacturing animal health thermometers and probes since 1969. Most GLA Thermometers and Probes can be repaired when necessary. Battery chargers, since they are not manufactured by GLA, must be replaced when necessary.

When you send us a thermometer/probe for repair, we request that you follow these guidelines:  
Include your thermometer, probe, and charger. This allows us to check the entire

"package" and ensure that the repair is correct and complete.

Include a note describing the problem you are experiencing, if you can describe in what situation the problem occurs, and if you would like an estimate before any work is performed.

Include your complete name, shipping address, and telephone number with area code so that we may contact you with any questions. Repairs can be sent to GLA from any authorized GLA distributor, or directly from our customer to the GLA factory.

By following these guidelines, you will make it easier for us to repair your thermometer efficiently and correctly. If you would like an estimate on the cost of a repair, or if you wish to discuss any repair, please contact us toll free at **800 346-1182** or email at [info@gla-ag.com](mailto:info@gla-ag.com). Our staff of repair technicians can advise you of the best steps to take.

## FREQUENTLY ASKED QUESTIONS

### **It reads Err1 on my display:**

**Err1** in Position **I** or Position **II** indicates that you either do not have a probe attached to your thermometer, or that you have a damaged or shorted probe. To correct this reading, either attach a M207 Probe or replace your damaged probe. It is often worth your time to remove your probe and look at the "prongs" on the probe connector itself. If the probe has been over tightened onto the thermometer, the prongs often do not make proper contact with the thermometer's probe connector. Gently spread the prongs out, this may solve the problem.

### **It reads Err2 on my display:**

**Err2** indicates a low battery charge. This will be shown on your LED display, follows by a rapid beep. This will normally happen when your battery is discharged to 5.5 volts. To correct this, please charge your thermometer. It may take up to a minute of charging before you see any indicating lights.

### **No Display:**

If there is no display, turn the Control Knob to Position **I**. If you still do not have a display, attach the charger unit and plug it into a wall outlet. If the charging lights appear, allow it to charge fully. It may take up to a minute to see the charging lights if you have a very discharged battery. If the battery will not hold a charge and the charger appears to be working (indicated by the rotating LED segments), the battery is probably in need of replacement. See BATTERY REPLACEMENT.

If there is no display when you attach the charger, please check your charger. Does it appear to be melted or is it hot to the touch when plugged into the wall? If so, you will need to replace your charger.

### **What do the different "BEEPS" mean?**

If you are in the Peak Hold Temperature Position (**II**) as your temperature stabilizes, the decimal point will stop flashing and the M700 will give you a single beep.

Several rapid beeps followed by an **Err2** reading on your display indicates a low battery.

When switching from one temperature scale to another, a single beep will confirm the switch.

### **Can you explain the difference in C316 Chargers vs. C725 Chargers?**

The C316 Charger is designed to work on the GLA M212 Series Thermometer and the M216 Series Thermometers. When a C316 charger is attached to either a M212 or M216 Thermometer you will see a (-) minus sign indicated on the left side of your LED Display. The C316 Charger will work on a M500HPDT Series Thermometer if necessary; however, it is not



designed to power it properly. You may find that your battery does not take a full charge with a C316 when used on a M500HPDT Thermometer. If you attach a C725 to your M212 or M216 Thermometer, you will NOT see a (-) minus sign indicating a charge.

The C725 Charger is designed to work ONLY on the M500HPDT and M700 Series of Thermometers. A C316 Charger will **NOT** work on a M700.

Also you may notice when you take your M500HPDT Thermometer off charge, with the C725 Charger attached, the decimal points continue to appear on the screen. This is normal and is a function of the charger; they will stop after a few moments.

**The M700 does not read 100.0 when I check calibration in Position 0.**

If your probe is attached, the M700 will NOT read 100.0; the number on the display is irrelevant and means nothing. Another probe may give you a completely different reading. Remove your probe and check calibration again. If your probe is not attached and it reads -40.5 on your display – your calibration check position is damaged and can be repaired, please send your M700 in for repair. If you have any other reading than 100.0 or -40.5, you have a damaged M700; you must return it to GLA for repair.

**Will my M700 read below freezing?**

Yes, the M700 Thermometer will read below freezing, however we cannot and do not guarantee the accuracy of the M700 outside of the temperature range of 80° -120° Fahrenheit / 30° – 50° Celsius.

**Will my M700 read above boiling?**

Yes, the M700 Thermometer will read above boiling, however we cannot and do not guarantee the accuracy of the M700 outside of the temperature range of 80° -120° Fahrenheit / 30° – 50° Celsius. However prolonged use above boiling will damage your probe.

**When I turn my M700 off, the display will not always read OFF.**

If you rapidly turn the M700 ON or OFF, your display may not read OFF. The M700 requires that a temperature is “sensed” by the probe before the unit may read OFF. As long as the screen is blank, your unit is OFF.

**My M700 does not turn ON when I push the button.**

Unlike previous GLA Thermometers (M211 / M212 / M216 / M500 Series) the push button does not power the unit. The Control Knob is the power switch.

**My display screen only shows a partial number, or is only partially lit.**

This is caused by one of two problems. The unit may have gotten wet and there is a corrosion problem on the circuit board itself. Please see “Basic Care and Maintenance” for instructions. Or the more common problem is that the M700 has been dropped hard and the LED’s have come out of their retaining sockets. If this may be the case, loosen the six window screws; gently push down evenly on the window, pushing the LED’s back into place. Re-tighten the window screws, being careful not to over tighten them. This should solve your problem. If it does not, you will need to send your M700 to GLA for service.

**IF YOU ARE EXPERIENCING PROBLEMS NOT DISCUSSED HERE, OR YOU NEED FURTHER INFORMATION, PLEASE CALL US AT 800 346-1182 AND A TECHNICIAN WILL BE GLAD TO ANSWER YOU’RE QUESTIONS.**

## **BATTERY REPLACEMENT**

All M700 Series Thermometers operate on a five-cell NiCad battery pack. We recommend that you send your M700 Series Thermometer in for battery replacement and general maintenance.

You may, however, purchase B601 Battery packs from GLA or your local distributor. Installation instructions are available. **NOTE: Soldering is required to replace the battery pack. It is very important to follow the battery installation directions, very carefully, step by step. NO OTHER DISASSEMBLY SHOULD BE ATTEMPTED. DUE TO THE MICROPROCESSOR OPERATION, IT IS IMPORTANT THAT ANY FURTHER REPAIR BE DONE ONLY BY A QUALIFIED ELECTRONICS TECHNICIAN, PREFERABLY A GLA REPAIR TECHNICIAN.**

## **GUARANTEE, WARRANTY, AND LIABILITY LIMIT**

All GLA products are warranted against defects in materials and workmanship for two years from date of purchase. If, during the warranty period, the product is defective in material and/or workmanship (excluding battery pack deterioration, non-factory repairs, battery charger deterioration, moisture damage, or abuse), GLA will make the necessary adjustments and repairs. Other than expressly stated herein, GLA Agricultural Electronics makes no warranties, expressed or implied, with regard to the M700 Series of Thermometers and M207 Series of Probes, including any warranty of merchantability of fitness for a particular purpose, and no claim of any kind against GLA Agricultural Electronics arising out of the use of the M700 Series of Thermometers shall be for more than the price paid to GLA Agricultural Electronics for the price of the GLA Thermometer. GLA shall not be liable for any special, incidental, or consequential damages, whether arising in contract or tort, resulting from the use of a GLA Thermometer.

The warranty period for GLA products (excluding negligence), is as follows:

M700 Series Thermometers-	2 years from date of purchase
M207 Probes-	1 year from date of purchase
B601 Battery Packs-	90 Days from date of purchase
C725/725C Chargers-	30 days from date of purchase.

The use or purchase of GLA Agricultural Electronics products to the general public is restricted. GLA products are intended for professional users only, including, but not limited to, animal health or livestock suppliers, veterinarians, physicians, or other professionals and qualified users. GLA products are surrendered by GLA with the understanding that it assumes no responsibility for resale or safe and knowledgeable handling. Neither GLA, its owners, nor its employees shall be held liable in any way for any personal or property damages resulting from, or relating, to the use of GLA products. Diagnostic errors resulting from malfunctioning GLA products remain the responsibility of the user.

**For users in the state of California**, the passage of Proposition 65 requires that we advise you that the GLA M700 Series of Thermometers contain a standard rechargeable NiCad battery pack which, if not handled properly, could conceivably be considered toxic. Should it have to be replaced, please take precautions not to expose it to heat or flames, and not to let it come in contact with food or drink. Please use reasonable care in handling the battery pack.

GLA's liability is limited to replacement or the repair of the GLA products purchased, or to the refund on undamaged items returned within 15 days. Returned items may be subject to a restocking fee.

## **WARRANTY FORMS**

Returning your warranty form allows us to serve you better and ensures validation of your warranty. It also allows us to contact you with any changes or updated information about your new GLA M700 Thermometer. Please, take a moment to fill out the form and return it to us.

## WHY TEMPERATURE YOUR ANIMALS?

- ♦ To monitor herd health and identify health problems early.
- ♦ To be able to correctly sort animals into the hospital pen.
- ♦ To know when to administer pharmaceutical products.
- ♦ To know when to stop administering pharmaceutical products.

### RECTAL TEMPERATURES OF SELECTED ANIMALS

ANIMAL	FAHRENHEIT	CELSIUS
Horse*	100.5°	38.0°
Beef Cattle	101.0°	38.3°
Dairy Cattle	101.5°	38.6°
Sheep**	103.0°	39.4°
Swine	102.5°	39.2°
Dog	102.0°	38.9°
Cat	101.5°	38.6°
Goat	102.0°	38.9°

\* Body temperature is higher in young animals and lower in older animals

\*\* Sheep with fleece(s) have a higher body temperature

The temperatures listed above are average rectal temperatures under ideal conditions. Outside temperature, time of day, age of animal, infection, ovulation, estrus, or pregnancy may affect actual temperature.

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