



FLOW  
LEVEL  
PRESSURE  
ANALYTICAL  
TEMPERATURE  
INSTRUMENTATION  
PASTEURIZATION CONTROLS

## The Guardian I Temperature Recorder

*The only temperature recorder designed specifically for raw milk bulk tanks*

- *Monitors and records critical cooling, storage, and cleaning temperatures*
- *Digital display provides easy viewing of temperature from a distance*
- *Circular chart meets regulatory requirements, provides excellent troubleshooting data*
- *High and Low temperature alarm relays are standard*
- *Complete package includes pre-wired cable and sensor for easy installation*
- *Lowest cost solution*

The Guardian I is the first and only temperature recorder developed specifically for farm bulk tank applications. It provides dairymen with a hard-copy record of how the milk is being cooled and stored, as well as the time and temperature of the cleaning cycles. It allows optimization of cooling, protects against "hot" loads, and insures the tank was properly cleaned and sanitized before re-use. The standard digital display,

along with high and low temperature alarm relays provide early warning signals of potential problems.

The "Guardian" ships as a complete package, including a pre-wired sensor (no more bulky, hard to install capillaries), ready to install on the tank, or up to 100' away. Charts are available in °F, or °C. For 24 hr., 48 hr., 72 hr., or 7 day rotation. We'll pre-program the recorder for the charts selected

but it's easily changed to accommodate any change in pick-up schedule.

Complete specifications and ordering information are available on the back. For more information please visit our Web Site at [www.anderson-fbtr.com](http://www.anderson-fbtr.com), or contact your local Authorized Anderson Distributor.



# Specifications

## Input

**Type:** RTD 100 ohm Platinum  
.00385 ohms/ohm/°C

**Range:** -1°C to 82°C (30°F to 180°F)

**Sensor Fault Detection:** Display goes to "SnSr" and pen goes upscale if a sensor break is detected

## Alarms

**Number:** Up to two process alarms  
**Type:** Process high or low  
**Security:** Alarm setpoint changes can be prohibited

## Relay Outputs

**Relay:** QTY=2, SPST, contact rated 5 amps resistive at 115 VAC

## Recording

**Pen Color:** Red  
**Chart Size:** 10" (reverse range), lower temperature on outside of chart  
**Chart Rotation:** User configurable: 24, 48, 72 hours or 7 days  
**Chart Span:** Bottom and top of span, 0°C to 80°C (30° to 180°F)(Reverse Range)  
**Chart Platen:** Sealable/Pinned Hub  
**Accuracy:** ± 0.75°F

## Operator Interface

**Display:** Four digits 0.56", high, red, seven segment, LED display  
**Status Indicators:** Two red LED alarm status indicators  
**Keypad:** Three keys for programming and unit operation

## Power Requirements

**Line Voltage:** 90-254 VAC, 50/60 Hz

## Construction

**Enclosure:** Injection molded case and cover with acrylic window  
**NEMA Rating:** NEMA 4X standard  
**Conduit Openings:** Three openings on the bottom side  
**Mounting:** Wall, with provided brackets  
**Overall Dimensions:** 13.5" wide X 15.5" high X 6.6" deep  
**Weight:** 12 lbs. maximum

## Environmental/Operating Conditions

**Operating Temp.:** 0°C to 40°C (32°F to 104°F)

## General Reference Information

Two Year Warranty - Recorder, One Year Warranty - Sensors

UL Approved for USA - UL 61010-1, 2nd Edition, PICQ - File E330854

UL Approved for Canada - CSA C22.2 No. 61010-1, 2nd Edition, PICQ7 - File E330854

Recorder and sensor calibrated and supplied as a package

## How To Order

### RECORDER

**Part #** **AT5502000107**

#### NOTE

- Must specify chart range at time of order. One box(100) charts included no charge.
- Must order temperature probe as separate item.

### BULLET STYLE - SINGLE ELEMENT PROBES

**SA6113602901** 

#### PRE-WIRED CABLE

05 25' cable  
10 50' cable  
15 75' cable  
20 100' cable

### CLAMP STYLE - SINGLE ELEMENT PROBES

Element - Specify one of these

**SA510040370000**

(1-1/2" Tri-clamp; others available on request)

Wiring Head with Cable - Specify one of these

**CT3100000011** 

#### PRE-WIRED CABLE

00 None  
05 25' cable  
10 50' cable  
15 75' cable  
20 100' cable

### ADDITIONAL ITEMS

**Charts:** 100/box

Part Number	
24 hour / °F	00215709
48 hour / °F	00215710
72 hour / °F	00215711
7 day / °F	00215712
24 hour / °C	00215705
48 hour / °C	00215706
72 hour / °C	00215707
7 day / °C	00215708

**Pens:**

Part Number	
60500402	Red Pens- 5-pack