



ANDERSON-NEGELE

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, 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