



ANDERSON-NEGELE

FLOW
LEVEL
PRESSURE
ANALYTICAL
TEMPERATURE
INSTRUMENTATION
PASTEURIZATION CONTROLS

Guardian III Basic - Farm Bulk Tank Recording Thermometer

- *Monitors all critical cooling, storage and cleaning temperatures*
- *Provides a permanent record for troubleshooting equipment problems*
- *Alarm features give early warning for cooler and wash system problems or failures*
- *Configure for bulk tank and wash line, or two bulk tanks*
- *Unique "Event" pen records that minimum wash temperature was met*

The Guardian III farm bulk tank recording thermometer is an enhanced, new version of the successful Guardian recorder—the first and still the only circular chart recording thermometer designed specifically for dairy farm bulk tank applications. With over 3,000 installations since its introduction in 1999, Guardian temperature monitoring technology is the proven, preferred system in farms all across the United States and Canada.

The Guardian III Basic continuously monitors and documents critical storage and wash cycle temperatures and provides

alarms when temperatures deviate outside of setpoints. Employing the Guardian III helps eliminate costly errors, isolate problems or potential equipment failures, and documents proper quality control. This can eliminate "hot" loads and lower bacteria counts, and with its low initial expense, the Guardian III will quickly pay for itself in higher quality milk premiums. It will also provide peace of mind with alarms and documentation that protect your income.

Anderson-Negele chart recorders are designed to give you the fastest, most accurate information. Our innovative inverse chart design makes

it easy to verify proper temperature status and the bright visible LED alternates display of current tank and wash temperatures. The Guardian III Basic may also be configured to monitor two bulk tanks. The second pen, normally configured to monitor the wash line, can be utilized to record temperature of the second tank.

Complete specifications and ordering information are available inside. For more information please visit our Web Site at www.anderson-negele.com, or contact your local Authorized Anderson-Negele Distributor.



Guardian III Basic Specifications

INPUTS

RTD: 100 ohm Platinum
.00385 ohms/ohm/°C
-1°C to 82°C (30°F to 180°F)

Sensor Fault Detection:

LED displays "9999" and pen goes upscale if sensor break is detected
LED displays "Hi" after 15-30 seconds

Measurement Error RTD:

±0.25% of span ± 1 degree

RELAY OUTPUTS

SPDT, contacts rated 5 amps resistive at 115 VAC, 2.5 amps resistive at 230 VAC, 1/8 HP at 230 VAC (single phase), 250 VA at 115/230

RECORDING

Pen Colors: Red (tank temp.), Black (wash cycle temp. or second tank temp) Red Event Pen (moves to chart periphery when minimum, adjustable wash temperature is met)

Chart Size: 10" (highlighted green zoned chart)

Chart Rotation: User configurable; 24-, 48-, 72-hours, or 7 days

Chart Span: 0° to 80° C (30° to 180°F) reverse range, low temperature on outside of chart

Chart Recording

Accuracy: ±0.75°F or 0.5% of chart span reference accuracy

Chart Rotation

Accuracy: 0.5% of rotation time, assuming all backlash removed

OPERATOR INTERFACE

Display: Four digits 0.56" high, red seven-segment LED

Keypad: Three keys for programming and unit operation

POWER REQUIREMENTS

Line Voltage: 90-264 VAC, 50/60 Hz

CONSTRUCTION

Enclosure: Injection moulded case & cover with acrylic window

NEMA Rating: NEMA 4X standard

Conduit Openings: Four; on bottom of unit

Mounting: Wall; brackets provided

Dimensions: 13.5" wide X 15.5" high X 6.6" deep

Weight: 12 lbs. maximum

ENVIRONMENTAL AND OPERATING CONDITIONS

Operating Temperature Range:
0°C to 50°C (32°F to 122°F)

GENERAL INFORMATION

Data Backup: EEPROM for configuration parameters and calibration data

WARRANTY

Two Year Warranty

AGENCY APPROVALS

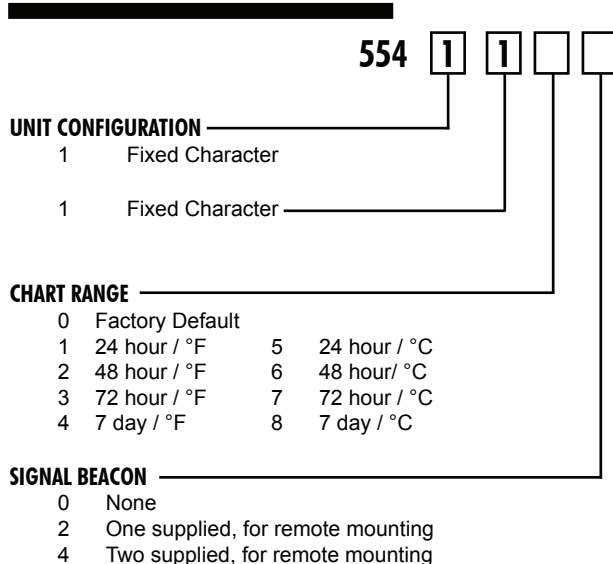
UL Approved for USA and Canada - UL 61010-1, 2nd Edition, QUYY - File E155886

INSTALL

Recorder and Sensor Pre-calibrated

Guardian III Basic Ordering Information

HOW TO ORDER



ORDER SENSORS SEPARATELY

BULK TANK TEMPERATURE PROBE

SA611360290105 "Bullet" style; 25' cable
SA611360290110 "Bullet" style; 50' cable
SA611360290115 "Bullet" style; 75' cable
SA611360290120 "Bullet" style; 100' cable

WASH LINE TEMPERATURE PROBE, OR SECOND TANK

SA611360290105 "Bullet" style; 25' cable
SA611360290110 "Bullet" style; 50' cable
SA611360290115 "Bullet" style; 75' cable
SA611360290120 "Bullet" style; 100' cable

TANK MOUNT TEMPERATURE PROBE

SA110743770105 E1-1/4" dia., 24" insertion, 25' cable
SA110743770110 E1-1/4" dia., 24" insertion, 50' cable
SA120743770205 E1-1/4" dia., 24" insertion, 75' cable
SA120743770210 E1-1/4" dia., 24" insertion, 100' cable

WASH LINE TEMPERATURE PROBE

SA510040370000 1.5" TC, 50' cable, 2.75" insertion
CT310000001110

CONSUMABLES

CHARTS

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

ACCESSORIES

Red Pen Cartridge 60500402 (5 pk.)
Black Pen Cartridge 60500408 (5 pk.)
Pen Blade with screws 64430501