



# autotemp

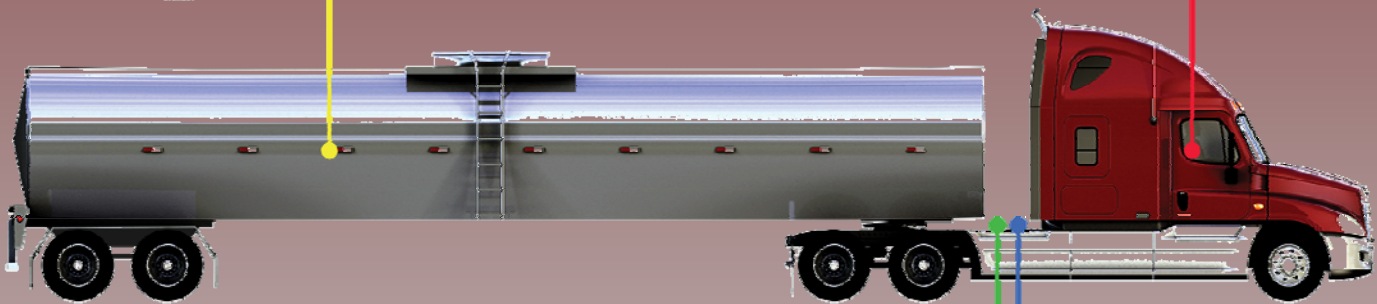
TEMPERATURE CONTROL SYSTEM



**Temperature Sender:**  
Wakes every 15 minutes in order to take a temperature reading and a battery-voltage measurement, with the results sent to the associated Cab Unit. When the transmission is acknowledged, the Temperature Monitoring Computer goes back to sleep.



**Cab Unit:**  
Displays current activity and settings for the AUTOTEMP™ system, while also sounding alarms and logging readings. Also can be used to adjust alarm limits, pre-heat the trailer and clear the data log.



**Wireless Control Valve:**  
An optional component that can open or close a valve in order to regulate the temperature of the trailer.



**Control Valve:**  
An optional component that is operational only when both a Temperature Sender and Cab Unit are active.

Civacon's patent pending AUTOTEMP uses a solid-state digital temperature sensor to monitor the tank shell temperature and transmit this reading wirelessly to an in-cab receiver unit every fifteen minutes. The driver can easily monitor the product temperature from the cab while driving; eliminating the time-consuming "stop and check" process of traditional dial temperature gauges. The display unit logs each time-stamped temperature reading and, with the addition of a handheld thermal printer, produce a detailed paper report. An audible alarm can alert the driver if the temperature has gone above or below a pre-set range.

AUTOTEMP is also available with optional temperature regulating capabilities. This version of the AUTOTEMP system adds an actuated Ball Valve and Valve Controller that automatically regulates coolant flow to the tank's heat exchanger with no driver involvement. Forming a closed-loop system that will ensure a stable product temperature.

## Controller/Ball Valve

The Ball Valve and Valve Controller are optional components. When added, the Controller opens and closes the Ball Valve to regulate the coolant flow to the trailer's heat exchanger as directed by the In-Cab Unit.

### Product Specifications:

**Part:**

Controller 3603T , Ball Valve 3604T

**Dimensions:**

Controller- 4" Mounting

Valve - 5.75"

**Materials:**

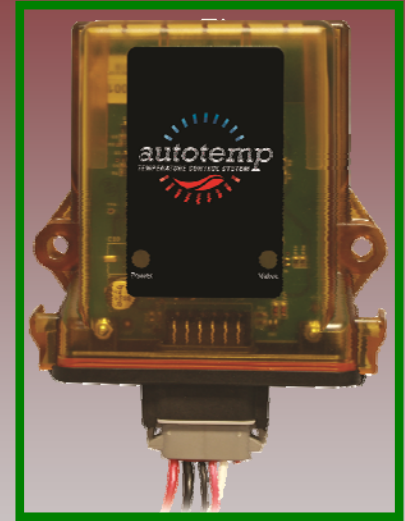
Controller - Sealed Plastic Housing

Valve - Stainless Steel w/Teflon Seals

**Weight:**

5 lbs.

**Temp. Range:**



## In-Cab Unit

The Cab Unit displays the current activity and settings of the system, sounds alarms, and logs readings. It has buttons for creating a link (pairing) with a Temperature Sender, adjusting alarm limits, pre-heating the trailer, dumping or clearing the data log, adjusting the clock and, controlling the audible portion of alarms. The buttons can also be used to display the radio signal strength and adjust the contrast of the display.

### Product Specifications:

**Part:**

3601T

**Dimensions:**

3.25" x 6"

**Materials:**

Plastic Enclosure w/Digital Display

**Weight:**

2lbs.

**Temp. Range:**

0° F to 150° F (0°C to 70° C)

## Temperature Sender

In normal operation the Temperature Sender wakes every 15 minutes. It takes a temperature reading and a battery voltage measurement to send the results to the associated In-Cab Unit. When the In-Cab Unit acknowledges the transmission, the Temperature Sender goes back to sleep. The Temperature Sender is typically awake for less than one half second.

### Product Specifications:

**Part:**

3602T

**Dimensions:**

5.84" OD

**Materials:**

Industry Standard Housing

**Weight:**

2 lbs.

**Temp. Range:**

-40° F to 150° F (-40°C to 70° C)