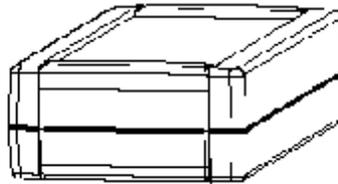
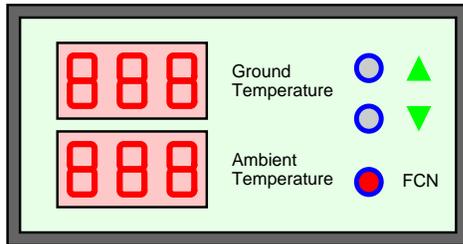


ST100 Road Surface Temperature Sensor

ST100 Readout



- ❑ **Displays Temperature**
... degrees F or C
display both road and ambient temperature
- ❑ **Durable Infrared Sensor**
... mounts externally,
sealed anodized housing
w/ SS bracket
- ❑ **Easy to Calibrate**
... can be calibrated with
out any special equipment
- ❑ **Temperature Alarms**
... easy to set from
display unit, audible alarm

The ST100 is a thermal measurement system for reading the temperature of the road surface. It utilizes an infrared sensor that mounts on the external area of the vehicle. The readout mounts conveniently into the cab of the vehicle.

The ST100 displays the road surface temperature and the outside ambient temperature. The ST100 also allows the operator to set a temperature alarm for both the road and ambient temperature. If the temperature goes below the alarm setting a beeper will sound and the display will flash. Pressing any pushbutton will clear the alarm.

Specification:

- 10-32 vdc power, 1/2 amp max.
- -20 to 70 deg C operation
- Input; temperature signal from the IR102
- Display; 2-rows or 3 seven-segment digits, 1/2", Red
- Operator controls; 3 pushbuttons for On/Off, set alarm, clear alarm, etc.
- Enclosure; plastic, approx. size 4" x 2" x 1" with mounting bracket
- Connections; screw terminal on rear side

IR102 Infrared Sensor



Specifications:

Field of view : 20 degrees (10 degree half angle), (4" spot diameter per foot distance)
Ambient operating temp range : -40 to +85C (-40 to +125C option)
Object temp range : -70 to 380C (-94 to 716F)
10 bit available resolution

Applications:

Agriculture

- Livestock monitor/poultry
- Crop canopy/hydration/harvest monitor
- Frost alert

Recreation

- Hot pavement alert

Transportation

- Ice warning/detection

Food

- baking, candy-chocolate processing, canning, freezing, frying, mixing, packing, roasting

Glass

- drawing, manufacturing/processing bulbs, containers, annealing

Metals (ferrous and nonferrous)

- annealing, billet extrusion, brazing, carbonizing, casting, forging, heat treating, inductive heating, rolling/strip mills, sintering, smelting

Quality control

- printed circuit boards, soldering, universal joints, welding, metrology

Paint

- curing, drying

Paper

- coating, ink drying, printing
- photographic emulsions, web profiles

Plastic

- blow-molding, RIM, film extrusion, sheet thermoforming, casting

Remote sensing

- clouds, earth surfaces, lakes, rivers, roads, volcanic surveys

Rubber

- calendering, casting, molding, profile extrusion
- tires, latex gloves

Silicon

- crystal growing, strand/fiber, wafer annealing, epitaxial deposition

Textile