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Installation & Instruction Manual

RTS-900 Dough Temperature Monitoring System



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Thank you for purchasing the Cooke model RTS-900 dough temperature monitoring system. The system utilizes a heavy duty type T thermocouple and a digital display that has been specially selected for this application and its ease of use.

Installation:


- **Mount** the control cabinet within 12 ft. of dough trough or mixer.
- **Plug** the 120 Volt line cord into a receptacle or remove it and hard wire the system to your 120 Volt power supply.
- **Insert** probe into dough and observe reading. You should see the probe fully respond within 30 seconds.
- Note: Should you believe that the display reading is not accurate, it is possible to recalibrate the system per the instructions below.




Calibrating the System

To modify the display reading, follow the instructions below.

*Press  +  for 3 seconds until COdE is displayed for 1 second, then 0 is displayed

*Press  +  and increase value to access code 85

*Press  until bIAS appears

*Press  +  or  to enter a correction value to calibrate the meter and thermocouple to match your NIST traceable thermometer reading

*Press  +  for 3 seconds to go back to HOME display or wait 60 seconds for display to automatically revert back to the HOME display

RT-911 Digital Temperature Display Specifications

- **Accuracy**
.25% of span (+/-1°C) (after 20 min warm-up)
- **Sensor Break Protection**
"Or" Appears when open sensor detected
- **Input power**
85-270VAC/DC, 50/60 Hz
- **Power consumption**
Less than 5VA
- **Protection**
NEMA 4X / IEC IP66 (front panel)
- **Ambient operating temperature & humidity**
0 to 50°C / 32 to 122 °F
0 to 85% RH (non-condensing)
- **Fuse for display**
Lamp fuse, Cooke part # P106
- **Weight**
250 grams

Troubleshooting Guide

| <u>Symptoms</u> | <u>Probable Causes</u> | <u>Solutions</u> |
|-----------------|---------------------------------|--|
| "Or" | Thermocouple is open | <ul style="list-style-type: none"> • Replace thermocouple • Check that terminal connections are tight |
| "rE" | Thermocouple leads are reversed | <ul style="list-style-type: none"> • Reverse polarity of thermocouple leads Blue=Positive, Red=Negative (for type T thermocouple) |

Spare Parts:

- Cat# RT-888 replacement heavy duty dough temperature sensor .250" OD x 6" long with handle, 90 degree bend, 32" coiled cord (12 ft. when extended) with s.s. wire rope tether and hardware for securing probe to control box.
- Cat# RT-888-BR bread temperature sensor .125" OD x 4" long with handle, light duty blue coiled cord (10 ft. when extended)
- Cat# RT-911 digital indicator only programmed for dough temp system