

TRS100



Mixer Slurry Temperature Rise/Set Monitoring System



Industry Breakthrough

Raytek has developed... a system that continuously monitors your mixing process

Benefits

- Reliable QA
- Save thousands of dollars in a single alarm occurrence
- Optimize your process
- Reduce scrap
- Reduce time and labor

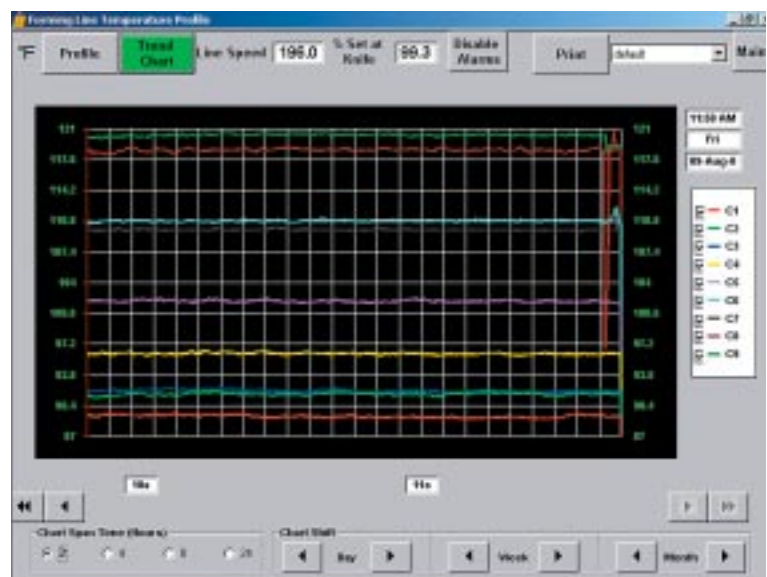
Features

- Automated and continuous rise/set temperature monitoring
- Replaces manual thermocouple measurement and analysis
- Instantly alarms for mixer problems before they shut your line down
- Adjustable high/low temperature alarm corridors can be preset and stored for each product recipe
- Historical trend charting
- Ambient air temperature offset capability
- Optional OPC outputs for all process variables
- Easy installation

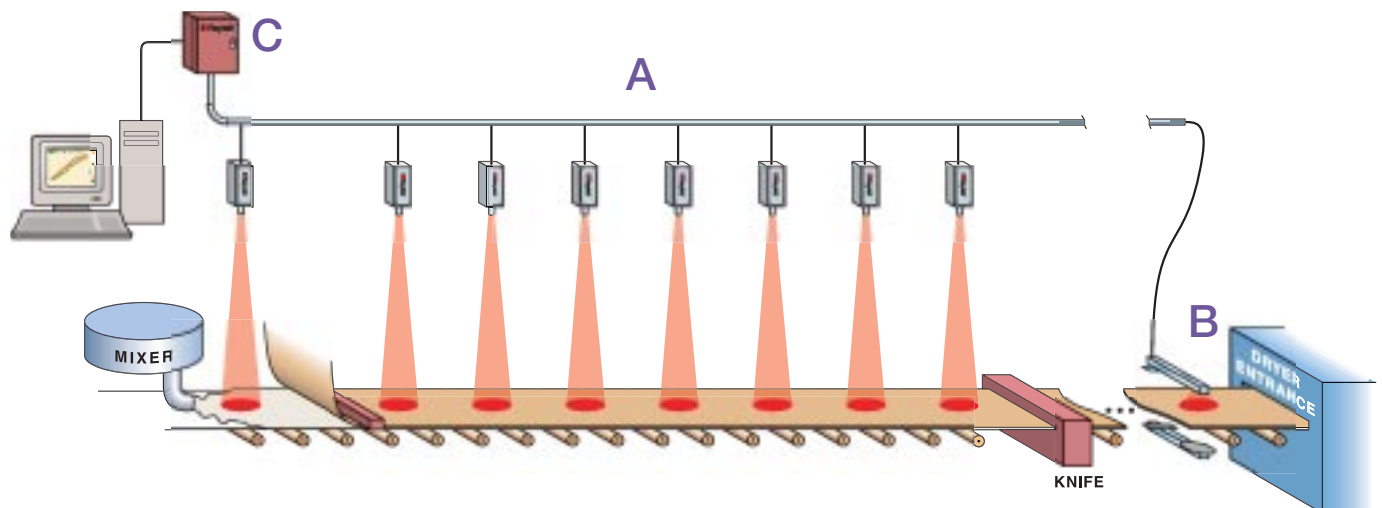
TRS100 System Software



The real-time temperature rise/set chart, with recipe-specific high/low alarm corridors, monitors even subtle changes in your mixer process.

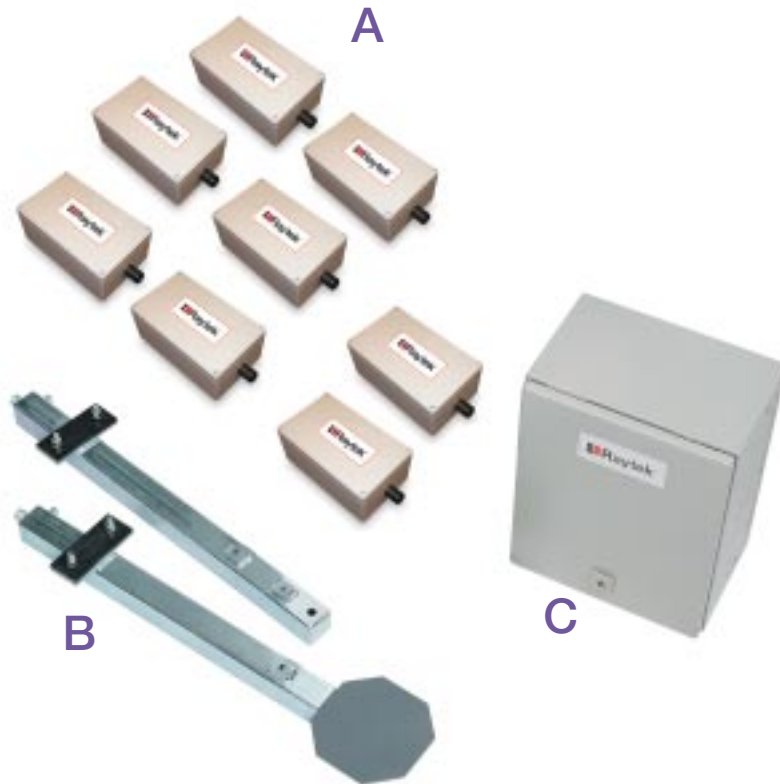


The historical trend chart shows all temperature rise/set variations over time.



What are our customers saying?

“This innovative system has changed the way we monitor our mixer process. We instantly see even subtle changes in our mixer additives. This system could easily pay for itself in the first two weeks.”



TRS100 System Hardware

A Rise Temperature Sensor Assemblies (8)

These infrared “spot” type sensors accurately and reliably send rise temperature data back to the PC via a single 4-wire cable. They can be mounted from 3 to 10 feet (1 to 3 meters) over the line.

B Final Set Temperature Sensor Assembly (1)

This assembly is mounted on the infeed section just prior to the dryer entrance for monitoring the final set temperature of your board. This sensor sends temperature data back to the PC via the same 4-wire cable.

C Main Control Cabinet

This cabinet contains electronics for processing the following signals:

- High Alarm Output
- Low Alarm Output
- Forming Line Speed Analog Input
- RS232 Serial PC Connection
- IR Sensor Temperature Inputs

At the Heart of the TRS100



The Field Proven MIC IR Sensor

- Accuracy to within 1%
- All sensors network on a single cable
- Long term reliability and performance
- Compact size for easy installation on your process

Specifications

| | |
|----------------------------|--|
| Input Power | 110-220 VAC 50/60 Hz, 2A max |
| System Accuracy | ±1% |
| Optical Resolution | 10:1 |
| PC Requirements | Pentium® II, 200 MHz, Windows® 98, NT 2000 or XP |
| PC Connection | Standard RS232 Serial 9-pin on control cabinet |
| Sensor Cable (Max. Dist.) | 3600 feet/1200 meters |
| Forming Line Analog Signal | 4-20 mA |
| High/Low Alarm Output | 24 VDC @ 0.250 mA Max |
| Sensor Scan Rate | 1 second |
| Ambient Operating Range | 0 to 85°C (32 to 185°F) |

Raytek Automation Products: Noncontact Temperature Measurement for Industrial ApplicationsSM

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