

# Temperature Monitoring and Control Systems



**Chief  
Industries  
UK  
Limited**

**TECHNICAL DATA SHEET TDS-300**

*Chief Industries UK Limited offer a complete range of products for the measuring and controlling of temperature within silos.*

## Temperature Hawsers

Temperature pendants, referred to as hawsers, are suspended by eyebolts from the top of the silo, enabling the measurement and recording of crop temperatures at various heights. The sensor element is replaceable, and runs through the middle of a strengthened tube. Each temperature sensor is bonded onto the sensor cable and is passed down the inside of the pendant, which protects it from the pressures of the stored crop. The sensor is a resistive thermistor with an accuracy of 0.2c. The pendant is supplied with a simple eyelet and shackle to allow suspension from the silo top and to prevent movement during crop loading a lower eyelet is provided for attachment to the base.



## Portable Monitoring

By connecting a simple handheld battery operated temperature monitor (PTH-3) and a switching box, the temperature at each level of the silo can be accurately monitored. The IP66 rated switching box is usually mounted on the side of the silo at ground level for convenient access.

## Multiple Remote Monitoring

Alternatively hawsers can be linked to the Series 2000 Silo Control System allowing remote monitoring of hundreds of sensors from multiple Silos. Data can be automatically analysed and used to operate either an alarm system or ambient fans to control crop temperature. The Series 2000 Controller is capable of allowing unlimited numbers of sensors and silos to be configured to the system and a unique Serial Connection system allows a single cable run from silo to silo reducing both the number of cables and the installation cost.



## Advanced Monitoring



With increasing numbers of Silos and sensors a crossover point is reached where it becomes more convenient to use a Computer System & many customers prefer the simplicity of using Windows style programs and mouse.

The software is easy to operate and temperature displays can be viewed for any controller on the network at anytime. Monitored temperatures can be displayed graphically and can be configured to include ambient temperature, alarm set points and date stamps. The graphs can also be printed on a colour printer. Remote access is available through the inclusion of a modem and telephone connection and an Alarm Software Option enables text Message Alarms to be transmitted to selected mobile phones. This allows an operator to be advised of any adverse changes to silo conditions in real time regardless of where they are. The system can also be expanded to monitor alarm conditions of other electrical plant on site.



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All capacities and dimensions are nominal. Due to our development policy prices and specification are subject to change without notice.

