

Five Keys to Improve Rotomoulding

1 *Effectively manage rotational moulding production*

Whether you use single or multiple station machines, **TempLogger** will give you the ability to effectively manage rotational moulding production in the least time. You will be able to build a comprehensive information base of man, machine and product performance that will enable you to optimize heating, cooling and de-moulding cycle times for any machine configuration.

- Simple and easy to use real time temperature measurement
- 24 x 7 continuous monitoring and control requiring minimal operator intervention
- Run first time samples without all the guesswork and problems
- Optimize machine operation with PLC interface options

2 *Improve productivity and quality control*

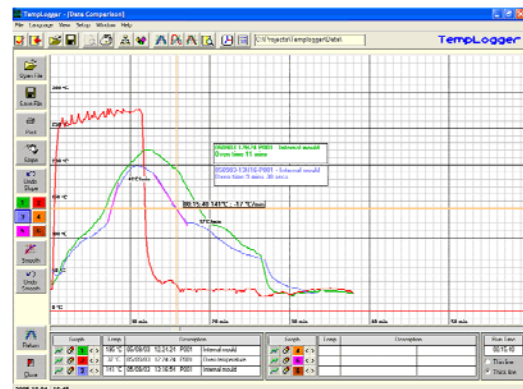
As a diagnostic tool, **TempLogger** ensures that heating and cooling cycles are optimized and allows operators to identify faults immediately thereby significantly reducing rejects and operational delays.

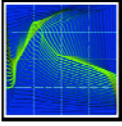
- Early fault detection and correction
- No more rejects from over or under curing or sticking in mould due to shrinkage
- Control end product shrinkage for better quality product
- Less down time from moulds off machine due to problems
- Double and triple skin moulding made easy and constant
- Product recipes include alarm settings, material requirements and machine allocation

3 *Analyse man, machine and product performance*

TempLogger maintains a comprehensive information base of temperature logs so that you can analyze man, machine and product performance to optimize heating, cooling and de-moulding cycle times for any machine configuration.

- Continuous, real time monitoring of multiple stations recording temperatures by machine, product, date and time
- View up to 12 hour shifts of continuous moulding cycles by machine, date and time
- Easy shift checking and monitoring of cycle times and production
- Compare and analyze individual graphs for different products and machines
- Simulation runs plus zoom, slope and curve smoothing functions

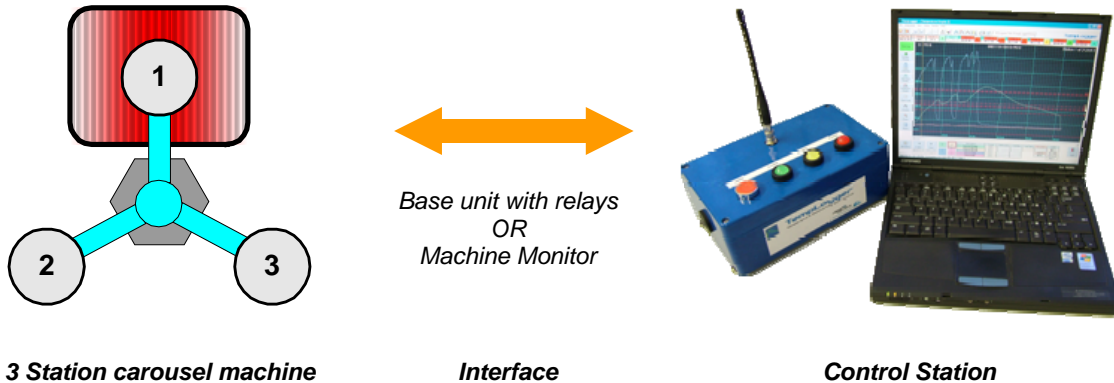




4 Control machine operation with interface options

TempLogger offers a mechanical or Windows® based Machine Monitor interface that replaces PLC timer controls with internal mould temperature measurements to control rotomoulding machine cycle times and eliminate environmental influences.

Alarm settings control oven operation and cooling cycles based on internal mould temperatures that can be monitored for any one of the four available channels. Temperature readings are filtered to remove erroneous information caused by probe malfunctions before any alarm can be activated.



5 Easy to use equipment and software

TempLogger consists of three basic components: a control station PC or laptop that is connected to a base unit and a temperature monitoring device sender unit that is attached to a machine arm or station. The base and sender units communicate with wireless radio telemetry. Up to 6 stations, each with 4 temperature channels and 6 alarms per station can be monitored simultaneously per machine.

Minimum system requirements

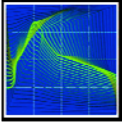
Pentium III, 650 MHz
512 Mb RAM
SVGA resolution 1024 x 768
10 Gb spare disk space
RS232 COM port
USB port

- Easy to use control stations with touch screen capability and virtual keyboard that simplify operations and require minimal operator intervention
- Affordable Windows® compatible software 2000, XP and Vista
- Interactive help facility with F1 key and walkthrough
- Multiple languages - English, German, French, Italian and Spanish commands, descriptions and error messages



Monitoring device sender unit, base unit and various components





Technical Specifications

| | | |
|--------------------------------|---|--|
| Monitoring device | The TempLogger™ monitoring device is lightweight, portable and conveniently attaches to machine arm platforms or moulds, measuring internal and external mould temperatures via K-type thermocouples. It can operate in temperatures of 300 °C for 60 minutes for 3 cycles. It sends data out of the oven and cooling bays to a control station where heating and cooling cycles are monitored and controlled. The control station can monitor 4 temperature channels with up to 6 alarms and operate 6 relays to control the machine. | |
| Temperature measurement | Range | -20 °C to 550 °C (-4 °F to 1022 °F) |
| | Accuracy | +/- 2 °C (4 °F) |
| | Resolution | +/- 0.5 °C (1 °F) |
| | Number of channels | 4 K-type thermocouples per station |
| | | Separate sender unit temperature and voltage |
| Transceiver units | Wireless communication | Multiple frequencies in 433Mhz band ISM license free in all countries |
| | RF remote link range | 30 metres from inside the oven with standard antenna. Signal can be improved and range extended with dipole antenna. |
| | Power supply | 2 x 1,5V AA batteries 1500 hour operation with lithium batteries |
| | Number of stations | 1 to 6 per machine, 4 channels per station |
| Heat insulation box | Dimensions | 280 mm x 185 mm x 185 mm |
| | Weight | 7,5 kg |
| | Material | Stainless steel frame |
| | Operating time | 3 x 60 minutes at 300 °C followed by replacement of cooling pack |
| | Protection rating | IP65 protection against dust ingress and water |

Contact

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