



Magnetic Temperature Sensor Arrays

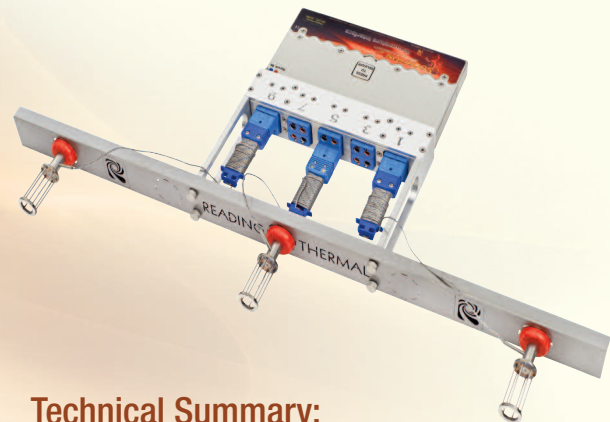
The **Magnetic Temperature Sensor Arrays** are intended for the customer who wants fixed sensor repeatability for bulk air temperature measurements. Designed as a low-cost alternative to the conventional Temperature Sensor Array, they mount to the Temperature Interface device. Up to 10 Magnetic Base Air Temperature Sensors are placed along the U channel at user controlled locations. There are two types of Magnetic Temperature Sensor Arrays available:

Magnetic Temperature Sensor Array

Designed as a fixed-length array to match conveyor widths from 300mm (11.8") to 3000mm (118"). The Magnetic Stainless Steel U Channel provides the mounting point for 1 - 10 Magnetic Base Air Temperature Sensors. This allows the user to study side-to-side temperature variation across the width of a conveyor. *Requires a Temperature Interface (device pictured).*

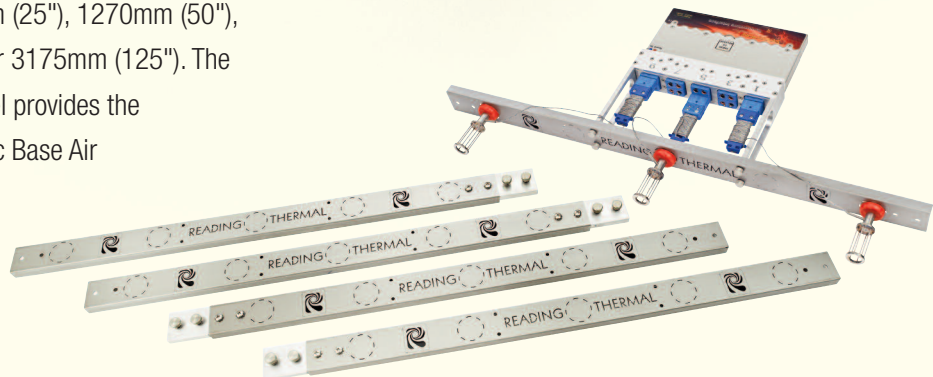
Sectional Magnetic Temperature Sensor Array

Compact flexible design used to profile temperature across the width of large tray and grid conveyor ovens typically used for baking bread and buns. The five 635mm (25") U channel sections are easily assembled, in any combination, to span conveyor widths of 635mm (25"), 1270mm (50"), 1905mm (75"), 2540mm (100") or 3175mm (125"). The Magnetic Stainless Steel U Channel provides the mounting point for 1 - 10 Magnetic Base Air Temperature Sensors. This allows the user to study side-to-side temperature variation across the width of tray and grid conveyors. *Requires a Temperature Interface (device pictured).*



Technical Summary:

- Mounting Hardware compatible with Temperature Interface
- Number of Magnetic Base Air Temperature Sensors: 1 - 10
 - Sensor Type: Type T thermocouple
 - Resolution: 0.025°C (0.045°F)
 - Accuracy: ±1.0°C (±1.8°F)
 - Response Time: $t_{60} = 3.5\text{sec}$ in air at 1m/sec (200ft/min)
- Operating Temperature Range: -50°C (-58°F) to 350°C (662°F)
- Battery Running Time: 50+ hrs.



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