

## Model 1700 Series

### Six-Channel Temperature Monitoring Systems

#### DESCRIPTION

The 1700 systems are designed as instruments to monitor large motors (350 HP and larger). The systems monitor up to six customer-set temperature points, using RTDs (Models 1700A and 1701A) or thermocouples (see Models 1705A and 1706A) and provide an alarm output for over-temperature conditions. The system can be configured to shut down the motors using the alarm output.

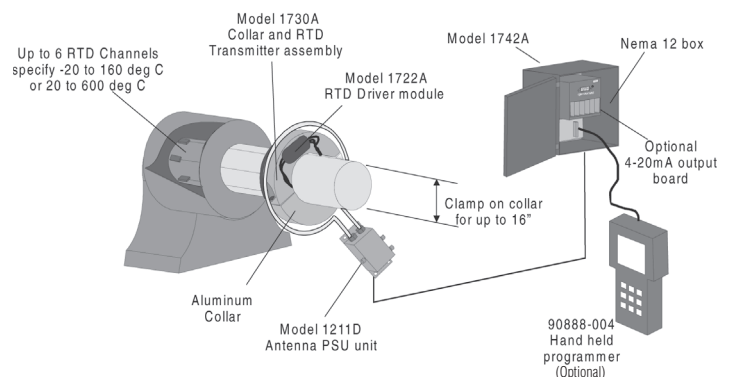
The Model 1700 system scans multiple Resistance Temperature Devices (RTDs) or thermocouples installed within the rotor windings or the starter bars providing data on minute changes in the thermal condition of the motor. Temperature monitoring of the windings is key to smooth operation. Overheating is a clear signal of an impending problem.

Model 1700 systems are composed from 1730A six-channel RTD temperature transmitters and clamp-on collar, Model 1731A six-channel RTD temperature transmitter and collar assembly, Model 1735A six-channel thermocouple temperature transmitter and clamp-on collar assembly, and Model 1736A six-channel thermocouple temperature transmitter and strap-on system.

#### FEATURES

- 1700A: RTD-based, clamp-on collar
- 1701A: RTD-based, strap-on collar
- 1705A: Thermocouple-based, clamp-on collar
- 1706A: Thermocouple-based, strap-on-collar
- Induced power
- Programmable alarm points
- Hand-held programmer (optional)

This system monitors up to six RTD-or-thermocouple-type temperature sensors and indicates the temperatures on an alphanumeric display. Any channel with a temperature greater than a programmable alarm set point can be displayed. The alarm feature has a relay output. The non-contact transmission method means no-fault path from the rotor to ground exists.



# Model 1700A

## Six-Channel Temperature Monitoring System (RTD Based - Clamp-On Collar)

**Warranty.** Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

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**⚠ WARNING**  
**PERSONAL INJURY**

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

**⚠ WARNING**  
**MISUSE OF DOCUMENTATION**

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

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