

## Bearing Temperature Monitoring System

### Detects Dangerous Hot Bearings

#### APPLICATION

The HotSwitch T400 "elite" System uses an electronic control unit, which works in conjunction with PTC temperature sensors to monitor up to 48 individual points. The control unit incorporates 8 separate zones, each of which is capable of monitoring from 1 to 6 individual bearings. The grease through PTC bearing temperature sensors provide positive mounting and use standard copper cable for wiring to the control unit. Front panel lamps show the status of the inputs and internal alarm relay contacts can be used for machine alarm/shutdown control or direct input to a PLC. An optional plug-in module provides RS485 serial communication for similar devices to be connected on a single multi-drop loop to a computer or PLC. Alarm mute and a test actuation is provided on the panel face for silencing external alarms and providing full system verification.

#### METHOD OF OPERATION

- **Simple installation:** grease through sensors use standard copper wiring.
- **8 separate zones:** up to 48 separate bearings per control unit.
- **Two different outputs:** Relay contacts and RS485 (PLC/PC)
- **Alarm Mute:** on panel cover and remote push button.
- **Test feature:** for simple system testing.

#### PART NUMBERS/ACCESSORIES

<b>T4002V345FC</b>	- T400 Elite Hotswitch
<b>WDB25V3CA</b>	- 194F/90C PTC Therm.
<b>WDB24V3CA</b>	- 176F/80C PTC Therm.
<b>WDB23V3CA</b>	- 158F/70C PTC Therm.
<b>WDB22V3CA</b>	- 140F/60C PTC Therm.
<b>TX400PLCB</b>	- PLC Interface Board

Detailed specification, wiring diagrams and installation/operating instructions available immediately upon request.



Please refer to instruction manual for correct installation.  
Information subject to change or correction. May 2007.



## CONTROL UNIT

### TECHNICAL SPECIFICATIONS

- Power Supply:** 120-240 VAC / 24 VDC
- Power Consumption:** 10 VA / 10 W
- Fuse:** 2 A Maximum
- Alarm Relay:** 1 Open Contact 8A @ 250 VAC
- Stop Relay:** 1 Closed Contact 8A @ 250 VAC
- Outputs:** Relay Board – 8 Open Contacts (Optional)  
RS485 Plug-in Module (Optional)

- Inputs:** 1-48 PTC Thermistors Sensor
- Supply:** 24 VDC
- Protection:** IP65 NEMA 4, 4X
- Approvals:** FM & Class 2 Div 1 Pending, ATEX (Europe) Pending
- Height x Depth x Width:** 9.7" x 7.4" x 4"
- Weight:** 3lbs

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