

TELSEC® 500

for Remote Site Cabinets



Variable Speed Control of up to 6 Fans
Saves Energy Costs
Extends Battery Life
Extends Heat Exchanger Fan Life

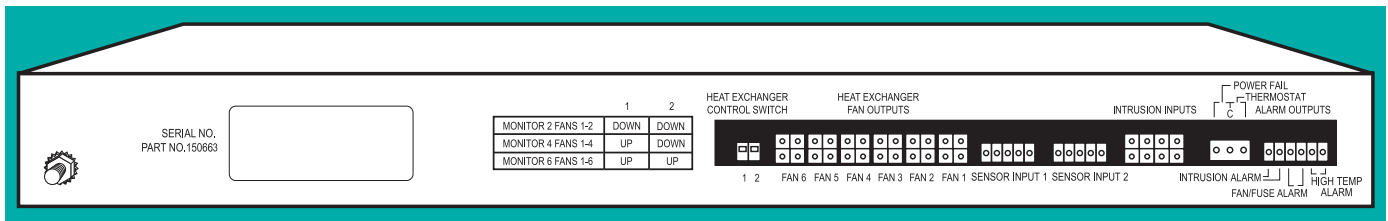
Alarm for Fan & Fuse Failure
Alarm for High Temp Condition
Alarm for Intrusion
1 Year Warranty

The TELSEC® 500 is designed to provide real-time monitoring and control of your heat exchangers in your remote site cabinets. The TELSEC® 500 delivers energy savings and extended equipment life for your fans and batteries.

- **Simple, compact, and designed for control and monitoring of up to six fans in a remote site cabinet.**
- **Built-in tachometer and speed control supports LOW COST 2 wire fans, thereby reducing capital expenditures.**
- **Connects to any model of the TELSEC® 1500/2000 RM/WM family.**
- **Provides high temperature and intrusion alarming.**
- **Integrated pulse width modulation control offers variable speed or on/off control of the fan motors; intelligent variable speed control enables the fan motors to run at the minimum necessary speed to maintain tight and stable temperature control within the cabinet, thereby saving significant energy costs.**
- **By running the fans at lower speeds, the life of each fan motor can be extended, resulting in lower fan replacement costs and reduced visits to the remote cabinet sites.**
- **Using variable speed control of the fan motors can also extend the battery plant life during a commercial power failure.**
- **Compatible with Marconi MESA® Cabinets.**
- **The TELSEC® 500 sends alarms to your selected alarm and/or maintenance center through dry contact closures.**



TELSEC[®] 500 for Remote Site Cabinets



Key Features

- Variable Speed or On/Off Control of up to 6 Fans.
- Built-in Tachometer for alarming which allows use of low cost 2 wire fans.
- Green/Red LEDs for each fan indicate status.
- Fan alarm reset: clears alarm conditions manually (on-site).
- User programmable high and low temp setpoints and high temp alarm for both normal and power fail operation.
- User adjustable fan maximum speed clips for both normal and power fail operation ensure meeting your tight acoustical and power failure reduction requirements.
- Override button: turns fans on to 100% or off or returns to automatic. Fans return to automatic when cabinet doors are closed.
- Fans will run at full speed and an alarm condition will occur if the system experiences a logic failure or if in override.
- Alarms for fuse failure, fan failure, or -48VDC power loss.
- Supports redundant (dual) power feed from power plant.
- Custom rack mounting option available.

Inputs

- Alarms up to 4 intrusion inputs.
- Measures and alarms high temperature condition using 2 external temp sensors.
- User programmable TStat input sends fans to 100% or 0%. Fail-safe feature for hazardous conditions.
- Commercial power fail input can both clip maximum speed and offset the temperature setpoints during battery discharge (extends battery life).

Fan Outputs

- Fan 1 – Fan 6: supplies each fan with -48VDC.

Alarm Outputs

- 1 High Temp: the contacts are wired NO with contact closure alarm.
- 1 Intrusion: the contacts are wired NO with contact closure alarm.
- 1 Fan/Fuse: the contacts are wired NO with contact closure alarm.

Fan Speed Selection

- Fan speed is determined by the TELSEC[®] 500 based on internal cabinet temperature.

Specifications

Part #	150663
Power Voltage	Nominal 48VDC (44 to 56VDC)
Current Draw	1 amp for Module, fans fused at 7.5 amps
Alarm Outputs (Contact Rating)	60VDC, 0.3 amps
Temp Sensor (up to 2)	Measures temperatures from -67 to 257°F (-55 to 125°C) in 0.9°F (0.5°C) increments. 22AWG 5 conductor shielded stranded PVC jacket. For 2nd temp sensor order part# 340258.
Ambient Operating Range	-40 to 180°F (-40 to 82°C)
RS232 Port (db9)	For diagnostics, uploading new operating system firmware, reading of temperatures, and programming of setpoints and other user configurable parameters.
Terminals & Connections	All connections are 2 piece type-plug in terminal
Fan Type	Compatible with popular industry-standard ebm/PABST high-velocity fans. Configurable for ON/OFF and Variable Speed control of both 2 wire and 2+ wire fans
Certification	UL Listed, CE
Dimensions	L 19.1"(486mm), H 1.95"(50mm), D 4.4"(112mm)
Weight	3.5 lbs (1.6 kg)
Warranty	1 year

Specifications are subject to change without notice



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