TELSEC® ESB2

for Monitoring, Control & Building Management of Remote Sites

ENVIRONMENTAL ALARM MONITORING & CONTROL

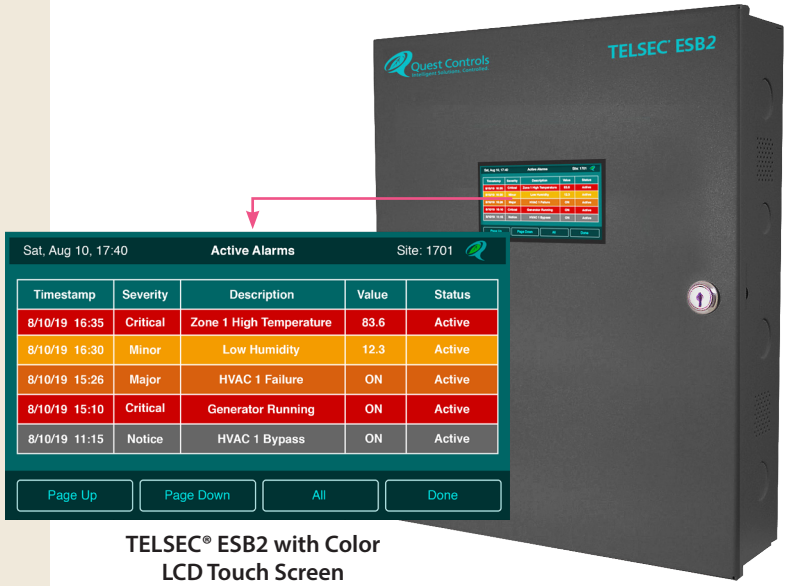
GENERATOR & ATS MONITORING

INTELLIGENT LEAD/LAG HVAC MONITORING & CONTROL

AC/DC POWER & UPS MONITORING

TELEPHONY EQUIPMENT MONITORING

TOWER LIGHT MONITORING



TELSEC® ESB2 with Color LCD Touch Screen

The TELSEC® ESB2 provides an integrated surveillance solution to monitor and control all environmental and equipment alarming:

- Performs all controlling, monitoring, and communication functions in a single product.
- Install in CEVs, CUEs, Headends and Cabinets.
- Install in COs and Data/Computer Centers.
- SNMP, embedded Web Server, with secure encrypted protocols.
- Uses Quest's patented economizer control algorithm to dynamically adjust settings to optimize the use of outside air for cooling.
- Compact, versatile package operates with a standard control program or can be customized to meet your requirements.
- Enables interrogation of remote sites from any alarm and/or maintenance center.
- UL and CE listed. Mountable in customized UL approved Panel Enclosures.
- Optional upgrade kit to update an existing ESB System.

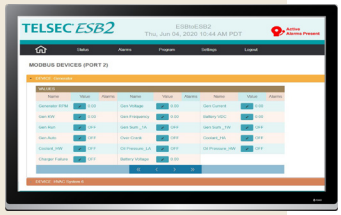
Acting as your smart eyes and ears, the TELSEC® ESB2 delivers large savings and quick payback by:

- Reducing energy costs via intelligent HVAC control strategies.
- Reducing visits to remote sites.
- Eliminating downtime by acting as an early warning system.
- Reducing capital expenditures by replacing multiple devices to accomplish the same task.
- Extending life of critical operating equipment including air conditioners, generators and power equipment.
- Providing remote visibility and 2-way communications.

Quest Controls
Intelligent Solutions. Controlled.

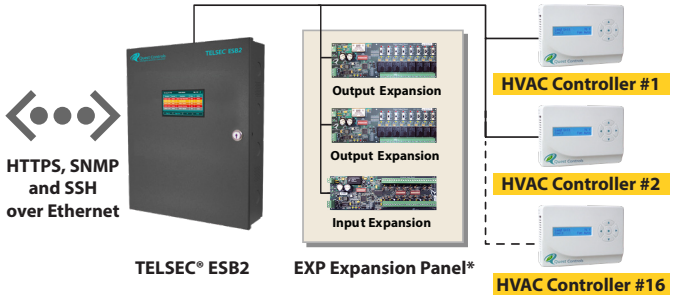
TELSEC® ESB2 Features:

- Ethernet connectivity with support for SNMP v1, v2c, v3 & secure Web server (HTTPS).
- Expandable to 272 universal inputs, 144 digital outputs and 66 analog outputs plus 16 standalone HVAC controllers.
- Controls multiple air conditioning units for fan, cooling, heat, and economizer through optional Intelligent standalone Controllers.
- Uses Quest's patented economizer control algorithm to dynamically adjust settings to optimize the use of outside air for cooling.
- Supports polling and alarming of 1024 registers for Modbus RTU slave modules.
- Converts Modbus RTU data to SNMP for remote polling and alarming of devices.
- Non-volatile FLASH memory prevents program loss & stores program upgrades.
- Monitors all environmental alarms: temperature, humidity, fire/smoke, toxic and combustible gas, high water.
- Built-in color LCD touch screen for system status and setpoint changes.



Secure Web-based Communications

SNMP Alarm Management
Web Browser for Status & Configuration
Email Alarm Messaging
UL Approved Panel Configuration



TELSEC® ESB2 **EXP Expansion Panel***

** Up to 3 TELSEC® ESB2 Input/Output Boards can be mounted in an Expansion Panel*

Specifications	TELSEC® ESB2	EXP Expansion Panel	UIB Board	DOB Board	AOB Board	HVAC Controller
Part Number	151084	150775 requires External Power Supply	130455	130454	130456	150966-5
Mounting	Wall mount					
Inputs	16 universal inputs expandable to 272 in 16 input increments, Analog (0-5 VDC or 0-20 mA) or dry contact closures (order part# 130455)					
Outputs - Digital	16 digital outputs expandable to 144 in 8 output increments, (order part# 130454)					
Contact Rating	(16) Form A, 1 amp at 30 VDC, 0.3 amps at 60 VDC, 0.5 amps at 125 VAC, (order part# 130454) (8) Form C, 10 amps at 28 VDC, 8.5 amps at 120 VAC					
Outputs - Analog Optional	2 on-board, expandable to 66 in 4 analog output increments, 0-10 VDC or 0-20/4-20 mA (order part# 130456)					
HVAC Control	16 standalone HVAC Controllers can be networked to the system. Order part# 150966-5					
Power	24 VAC/20-60 VDC, current draw 0.5 amps at 24 VDC					
Front Panel	Color Touch Screen LCD 4.3" diagonal with 24-bit TrueColor. WQVGA resolution (480 x 272)					
Serial Network Options Supported	Three RS485 ports Modbus RTU & Quest expansion modules					
Network Interface (option) LAN Protocols Supported	Ethernet 10/100BaseT with RJ45 connector IPv6, IPv4, HTTP, HTTPS, RADIUS Password Authentication, NTP, SMTP (email), SSHv2, Telnet, SNMP v1, v2c and v3 for Gets, Sets and traps/informs					
I/O Terminals	2 piece pull-off terminals for all field wiring					
Battery	Long life lithium: 10 year shelf life, 1.5 years under load					
Temp/Humidity Sensor Accuracy	Temp: ±1°F (±0.5°C), Humidity: ±2% of range. Temperature & Humidity sensor (standard)					
Ambient Operating Temp	-20 to 180°F (-29 to 82°C), 0-95% RH Non-condensing					
Certification	UL, CE					
Dimensions	12.25"W x 15.25"H x 3.56"D (311 x 387 x 91 mm)					
Weight	14 lb (6.4 kg)					
Warranty	1 year					

For use under U.S. Patent No. U.S. 10,267,529 B2 when component is part of a patented combination
Specifications subject to change without notice

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