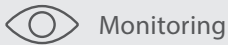


# TELSEC® CEV Panel



Monitoring



Controlling



Alarming

## APPLICATIONS

CEV - CEMH - WIC - HUT  
CUE - CEC - Fiber Hub

Quest Controls' proprietary TELSEC CEV Panel delivers an integrated, high-performance solution for new construction and retrofit applications, enabling complete monitoring and control of environmental conditions and equipment alarming in remote underground Controlled Environmental Vaults (CEVs). The TELSEC CEV Panel serves as a direct, modern replacement for outdated electromechanical or electronic control systems currently deployed in these remote CEVs, streamlining operations and enhancing reliability:

- Performs all control, monitoring, and communication functions in a single product.
- Provides critical visibility to the remote CEV via 2-way communications, which enables remote interrogation of the sites from any alarm and/or maintenance center.
- Provides power relays for controlling air conditioners, vent fans, and heaters.
- Replaces older generation thermostats, humidistats, lead/lag controllers, mechanical bypass timers, and other electromechanical components.

## Features

- Ethernet connectivity with support for SNMP v1, v2c, v3 & secure Web server (HTTPS)
- Alarms notification via TL1 over nailed up Telnet session, SNMP traps/informs & email.
- Intelligent lead/lag control of multiple A/C Units.
- Automatic switching to -48VDC backup power upon failure of 120VAC main power.
- Intrusion Monitoring.
- Supports Modbus RTU for monitoring ATS, generators, etc.
- Non-volatile FLASH memory prevents program loss & stores program upgrades.
- Monitors all environmental alarms such as: temperature, humidity, fire/smoke, toxic and combustible gas, high water, halon discharge.
- Expandable for additional monitoring and control.
- Enhances troubleshooting with a searchable event history log.
- Color touchscreen display for status monitoring and alarm display.

## Benefits

Acting as your smart eyes and ears at the remote site, the TELSEC® Monitoring and Control Panel delivers large savings and quick payback by:

- Reducing energy costs via free cooling and intelligent HVAC lead/lag control strategies.
- Reducing visits to remote CEVs.
- Eliminating downtime by acting as an early warning system.
- Enhancing troubleshooting with a searchable event history log.
- Extending life of critical operating equipment including air conditioners and batteries.



Toxic & Combustible  
Gas Monitoring



Intelligent Lead/Lag HVAC  
Monitoring & Control



DC Power  
Monitoring



Generator  
Monitoring



Environmental Alarm  
Monitoring & Control



Telephony Equipment  
Monitoring



High Water  
Monitoring



Fire & Smoke  
Monitoring

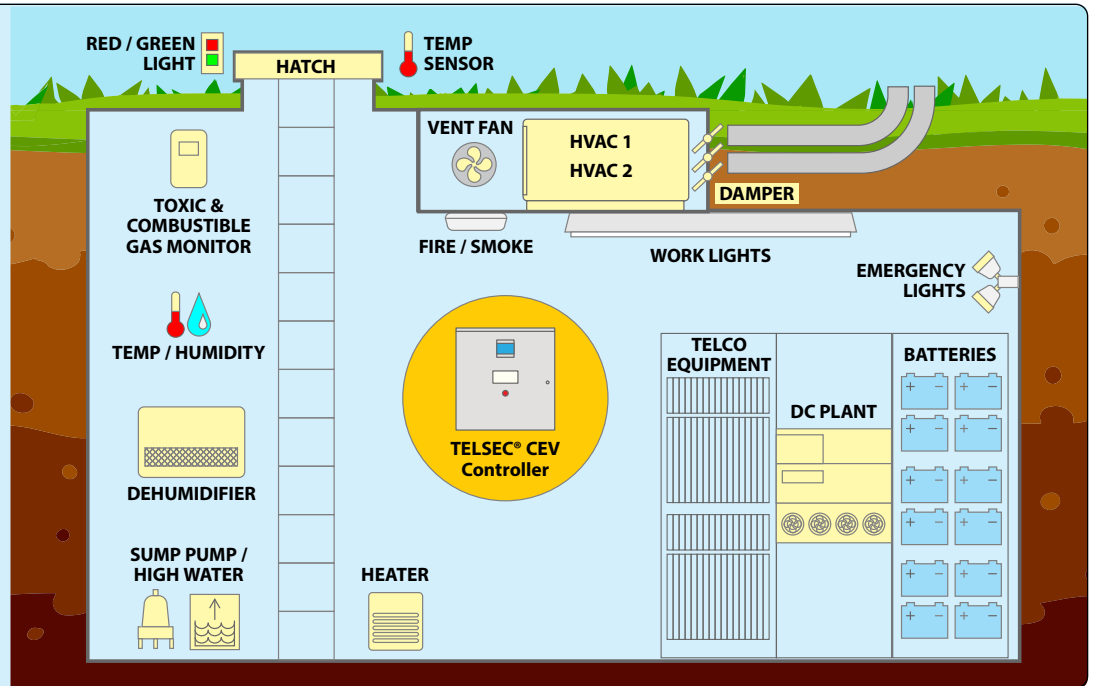


# TELSEC® CEV Panel



Quest's innovative Customer-Driven products and services reduce your company's carbon footprint, optimize energy usage, enhance operational efficiency, and improve overall facility management.

The CEV Panel provides remote visibility to eliminate on-site visits for routine checks.



## Specifications

Part Number	151115
Outputs	24 digital outputs for control and alarming. Expandable to 144 outputs in groups of 8 (order part# 130454)
Inputs	16 universal inputs can be analog (0-5VDC or 0-20 mA) dry contact closure or wet contact (+65VDC max.). Expandable to 272 in 16 input increments (order part# 130455)
Control Output Relays (12)	1-Vent Fan 10 amp, 2-Cool 10 amp, 1-Heat 10 amp, 1-Emergency Lights 10 amp, 1-Work Light 10 amp, 1-Sump Pump 10 amp, 1-Red/Green Light 10 amp, 1-Dehumidifier 10 amp, 1-Damper 10 amp, Audible Buzzer 10 amp, Spare 10 amp
Annunciator	80db at 1m
Power	120VAC, 2.6 amp max. -48VDC, 4 amp max. Automatic switching to -48VDC backup power upon failure of 120VAC main power.
Front Panel	Color Touch Screen LCD 4.3" diagonal with 24-bit TrueColor, WQVGA resolution (480 x 272)
Serial Network	3 RS485 ports: 2 for Modbus RTU, 1 for Quest expansion modules
Network Interface	LAN - Ethernet 10/100BaseT with RJ45 connector
Network Protocols Supported	IPv6, IPv4, HTTP, HTTPS, RADIUS Password Authentication, NTP, SMTP (email), SSHv2, Telnet, TL1, SNMP v1, v2c and v3 for Gets, Sets and traps/informs

Alarm Transmission	TL1 over Telnet up to 9 locations, SNMP Traps or Informs to 4 locations, email to 9 addresses, 12 alarm contact closures
I/O Terminals	Screw type terminal blocks
Backup Battery	Long-life lithium, 10-year shelf, 1.5 years under load
Temp & Humidity Sensor	Temp: $\pm 1^{\circ}\text{F}$ ( $\pm 0.5^{\circ}\text{C}$ ), Humidity: $\pm 2\%$ of range, sensor included with panel
Ambient Operating Temp	-40 to 180°F (-40 to 82°C), 0-95% RH non-condensing
Dimensions	24"H x 24"W x 6.62"D (610 H x 610 W x 168 D mm)
Shipping Weight	58 lb (26.3 kg)
Warranty	1 year

Available Sensors	
Part Number	Sensor
150747-C	<b>Outside Air Sensor</b> Accuracy: 32° to 158°F (0° to 70°C), $\pm 0.36^{\circ}\text{F}$ ( $\pm 0.2^{\circ}\text{C}$ )
151022	<b>Gas Sensor</b> Carbon monoxide, Electrochemical, 0-250 ppm, Methane, Catalytic Bead, 0-100% LEL
300136	<b>Smoke Detector</b> Photoelectric sensitivity 3.1% + 0.5 to 1.0%
300946	<b>Oxygen Smart Gas Sensor</b> Catalytic Bead

Specifications subject to change without notice

www.questcontrols.com  
Tel: (941) 729-4799, Fax: (941) 729-5480  
208 9th Street Drive West, Palmetto, Florida 34221

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