

# AUTOMATIC SWITCHING, SCULLY REPLACEMENT CHASSIS

EXTEND EQUIPMENT LIFE WITH OPTI-THERM  
MODEL 8460SRC REPLACEMENT CHASSIS



## FEATURES & BENEFITS

- Upgrades Scully ST-6 or BICLOPS® rack control monitors with simple drop-in direct replacement chassis
- Provides Automatic Switching and Internal Ground Verification for API Optic and Thermistor technology, all in one package
- Easy installation, requiring simple hand tools; typically less than one hour downtime
- Accepts existing wiring from 120VAC power supply and control circuits, plus plug and cord connections
- Compatible with all 5-wire optic, thermistor, thermo-optic sensors. Will load all trailers equipped with any brand or style of overfill detection system
- Includes ground verification with additional set of contacts for installing an external ground verification status light
- Overfill detection and ground verification are signaled to the terminal automation system (T.A.S.) separately, enabling maximum flexibility at the loading terminal without compromising safety
- Suitable for Class I/Division 1/Group D hazardous locations when installed per Civacon installation manual
- Covered by Civacon's 1-year warranty, with full factory service available

***For more information, call Civacon or visit us  
on the web at [www.civacon.com](http://www.civacon.com).***

<b>CALL</b>	TECHNICAL SUPPORT	(800) 5-CIVAICON • (800) 524-8226
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**civacon**<sup>TM</sup>  
REAL WORLD. REAL SOLUTIONS.

# CIVAICON 8460SRC OPTI-THERM RACK MONITOR

## SCULLY REPLACEMENT CHASSIS

### OPERATION

Civacon's Opti-Therm 8460 SRC is a direct replacement chassis for upgrading Scully ST-6 or BICLOPS® rack control monitors with Civacon Opti-Therm technology — Automatic Switching and Internal Ground Verification for API compatible Optic and Thermistor technology all in one box. Installation requires simple handtools and typically less than an hour.

Civacon Opti-Therm rack monitors are used to automatically recognize the type of overfill system (optic or thermistor signal technology) that is being used on a transport. When connected to the transport, the monitor checks the status of sensors within the compartments. Overfill detection systems such as the 8460SRC provide automatic warning of product overfill detection at predetermined levels and warn of a pending overfill condition.

Rack monitors using standard optic and thermistor signal formats communicate with the onboard monitor (overfill detection chassis) or directly to the "straight" optic or thermistor systems on the transport.

This communication is accomplished via a self-checking, intrinsically safe electrical signal. The electrical signal is generated by the control monitor and is transmitted to the sensors through a coiled cord and industry standard plug.

During normal operation, when the sensors on the trailer are dry and functioning properly, a signal is returned to the monitor. Providing this signal meets predetermined characteristics, the monitor goes to a "permissive" state. This "permissive" state closes a set of relay contacts which changes the status lights on the front of the rack monitor from red to green and signals to the terminal automation system (T.A.S.) that everything is functioning properly.

During the loading process, if a sensor becomes wetted, the monitor opens a relay enabling the terminal automation system (T.A.S.) to recognize the changed condition. Immediately, the status lights on the rack monitor switches to red, a "non-permissive" state.

This system can be used for applications that include as many as eight optic or six thermistor liquid-level type sensors.

### SPECIFICATIONS

**Operating Temperature:**

-40°F to 158°F (-40°C to 70°C)

**Input Requirements:**

120 VAC 60 Hz, 15VA (Standard)

**Output Relay Contacts:**

Ground Verified: 240 VAC — 5A DPDT

Overfill Permissive: 240 VAC — 5A DPDT

**Response Time:**

0.5 seconds maximum, dry to wet transition

**Electrical Connections:**

Convenient Terminal Strips

**Housing Material:**

Aluminum & Lexan

**Installation Information:**

Provided with the monitor. If necessary, installation instructions can be ordered separately at no charge.

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