

AUTOMATIC SWITCHING, DIAGNOSTIC OPTI-THERM RACK MONITOR

MODEL 8580 DIAGNOSTIC OPTI-THERM RACK MONITOR



Civacon Model 8580 features include:

- High-resolution 3" x 5" LED diagnostic display is easy to read from a distance, limits chance for errors (optional remote display available)
- Two separate output relays for overflow and ground verification providing superior flexibility and safety
- Compatible with all 5-wire optic, thermistor, and 2-wire thermo-optic sensors. Will load all trailers equipped with any brand or style of overflow detection system

- Automatic recognition and switching between Optic and Thermistor technology; no decisions or manual efforts required by your customers
- Convenient wireless handheld bypass controller
- Diagnostic capabilities include ground verification, permissive status and compartment identification



Discover the many advantages of our new Model 8580 Diagnostic Opti-Therm Rack Monitor...

Learn more — call 888-526-5657 or visit us at www.civacon.com

civaconTM

a division of... **TRANSFER CONTROL**
technologies

4304 Mattox Road • Riverside, MO 64150
816-741-6600 • fax 816-741-1061

www.civacon.com

ISO 9001
certified

CALL	TECHNICAL SUPPORT	(800) 5-CIVACON • (800) 524-8226
	INQUIRIES SALES SERVICE	(888) 526-5657 • fax (888) 634-1433

Made In The
USA

©2001 Civacon

CIVACON MODEL 8580

DIAGNOSTIC OPTI-THERM RACK MONITOR

OPERATION

Civacon, Opti-Therm rack monitors are used to automatically recognize the type of overflow 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 tanks or compartments. Overflow detection systems, such as the 8580, provide automatic warning of product overflow detection at predetermined levels and warn of a pending overflow condition.

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

This communication is accomplished via a pulsed, 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 provides a signal which changes the status lights on the front of the rack monitor (model number 8580), from a red to a green color, signaling to the terminal automation system (T.A.S) that everything is fine.

During the loading process, if a sensor becomes wetted, it sends a signal enabling the monitor to recognize the changed condition. Immediately, the status lights on the rack monitor (model number 8580) switch to red, a "non-permissive" state, and signals the terminal automation system (T.A.S.) for action (i.e. immediate shut-down). This system can be used for applications that include as many as twelve optic or eight thermistor liquid-level type sensors.

The Model 8580 Opti-Therm Diagnostic Rack Monitor includes display status of the optic or thermistor, "permissive" or "non-permissive" status and mode of operation.

SPECIFICATIONS

Operating Temperature:

-40°F to 140°F (-40°C to 60°C)

Input Requirements:

120 VAC 60 Hz, 15VA (Standard)
240 VAC available — please inquire

Output Relay Contacts:

240 VAC — 5A DPDT

Response Time:

0.5 seconds maximum, dry to wet transition

Electrical Connections:

Internal Terminal Strips

Enclosure:

NEMA 4 explosion proof, Class I, Div. 1, Group D

Housing Material:

Aluminum

Approximate Weight:

Model 8580 — 43 lbs.

Approvals:

UL, CUL (Canada); CENELEC (Europe)

Installation Information:

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

civaconTM

a division of... **TRANSFER CONTROL**
technologies

4304 Mattox Road • Riverside, MO 64150
816-741-6600 • fax 816-741-1061

www.civacon.com

CALL
TECHNICAL
SUPPORT
INQUIRIES
SALES
SERVICE

(800) 5-CIVACON • (800) 524-8226

(888) 526-5657 • fax (888) 634-1433

ISO 9001

Made In The
USA

©2001 Civacon
CK-01111 • 1.5MFM1 10/01

2001