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 overfill 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 overfill 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
CIVACON MODEL 8580
DIAGNOSTIC OPTI-TERM RACK MONITOR

OPERATION
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 tanks or compartments. Overfill detection systems, such as the 8580, 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 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.