

# Overfill Prevention & Ground Verification Controller

## Security During Loading.

### OPW CIVACON 8870 Series

The OPW CIVACON 8870 Overfill Prevention and Ground Verification Controllers designed for API bottom loading applications on single and multi-compartment tank trucks at storage depots.

In the event of a possible overfill situation the 8870 output relay sends a signal to a Terminal Automation System, control valve or pump to shut-down the loading operation.

Should proper grounding not be maintained a non-permissive signal, generated by the 8870, interrupts the loading process immediately.

This remote shutdown ability in combination with its enhanced features makes the 8870 the best fail-safe rack monitor available to the industry today.

OPW CIVACON 8870 Overfill Prevention and Ground Verification Controller is the first unit with a simplified OLED Graphic Display. Vehicle Sensor & Grounding status is shown at a glance!

### Features and Benefits

- **Automatic recognition** of sensor technology
- **Supports** up to 12 five-wire or 8 two-wire optic sensors
- **Self-checking** at Start-Up; continuous Self-Monitoring
- **1 separate** user definable output relay. Overfill & Ground, Overfill, Ground, Smart Socket.
- **Fail-Safe** redundant permissive output relays
- **LED** individual status indicator lights
- **Graphic OLED** Display for simplicity
- **Real-time** clock
- **Event logging** time stamped
- **Vehicle data** communication prepared
- **Sophisticated** wireless multiple-function & by-pass key
- **Dead-man switch** connection
- **Low temperature** useable in extreme environmental conditions as low as -45°C
- **MODBUS** communication available
- **Conforms to** NEN EN13922, API RP1004 and VOC directive 94/63/EC
- **Combine with OPW-Civacon Cane probe** for top loading applications on tank truck or rail cars.
- **SIL 1** standard, SIL 2 optional



### Ordering Specification

See price list

### Product Specification

Input power supply	85-264 Vac 50/60Hz
Nominal power consumption	4VA
Output relays	250V ac/dc 2AT
Communication	Optional RS485/422 datacomms port
Operating temperature	-45°C to +70 °C
Response time	< 200ms
Approvals	ATEX / IECEx / QPS / PESO
Enclosure	IP68 acc. to IEC 60529
Weight	7.3 kg
Dimensions	270x230x60 mm

### Accessories / Related products

Article nr	Description
7401E	Black Poly plug, 10-pins, 4x J-slot c/w 6 meter coiled cable to EN13922
7301E	Green Poly Thermistor Plug , 10-pins, 4x J-slot c/w 6 meter coiled blue cable for 2-wire thermistor sensors (non EN13922 applications)
7101E	Blue Poly Optic Plug , 6-pins, 3x J-slot c/w 6 meter coiled blue cable for 5-wire optic sensors (non EN13922 applications)
7450E	Storage hanger (for Euro EN13922 10-pin plug).
7451E	Storage hanger + park detection (for Euro EN13922 10-pin plug).
7153-7153	Storage hanger (for 6-pin optic plug).
7510E	Junction box , 1 socket
7511E	Junction box , 2 sockets
1386E	Rack monitor tester

And many more - consult factory for options.



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