

OVERFILL PREVENTION AND GROUND VERIFICATION CONTROLLER

Security During Loading

The OPW CIVACON 8800E Overfill Prevention and Ground Verification Controller is 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 8800E 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 8800E, interrupts the loading process immediately. This remote shutdown ability in combination with its enhanced features makes the 8800E the best fail-safe rack monitor available to the industry today.

EN13922 and VOC directive 94/63/EC compliant.

Features and Benefits

- **Automatic recognition** and switching between OPTIC and THERMISTOR sensor technology
- **Supports** up to 8 two-wire and 12 five-wire sensors
- **Self-checking** ground verification incorporated in cable & plug assembly
- **Two** separate output relays for Overfill and Ground Verification
- **Fail-Safe** redundant output relays
- **LED** status indicator lights
- **Multiple** language LC Display
- **Enhanced** detailed diagnostic readout on graphic display
- **SD** RAM socket
- **Real-time** clock
- **Vehicle data** communication prepared
- **Sophisticated** wireless multiple-function & by-pass key
- **Dead-man switch** prepared
- **Low temperature** useable in extreme environmental conditions as low as -45°C
- **Conforms** to EN13922 and VOC directive 94/63/EC

Product Specification

Input power supply	110-240 Vac 30VA 50/60Hz
Output relays	250V ac/dc 5AT
Communication	RS485/422 data communication port
Operating temperature	-45°C to +70 °C
Response time	< 400ms
Approvals	ATEX II 2(1)G Ex d ia [ia] IIB T4
Enclosure	IP65 acc. to IEC 60529
Weight	12 kg
Dimensions	310x280x80 mm



Spare parts

Part number	Description
H71197	Main Seal
H71307	Corrosion Protector VCI-101/ACF-50
ELO4141	Mains power input Fuse 2AT
ELO4142	Relay contact output Fuse 5AT

Accessories/Related products

Article nr	Description
7300E	Green Poly Thermistor Plug , 10-pins, 4x J-slot c/w 6 meter coiled blue cable for 2-wire thermistor sensors (non EN13922 applications)
7100E	Blue Poly Optic Plug , 6-pins, 3x J-slot c/w 6 meter coiled blue cable for 5-wire optic sensors (non EN13922 applications)
7450-7450	Storage hanger (for black Euro EN13922 10-pin plug).
7350-7350	Storage hanger (for 6-pin optic plug).
7150-7150	Storage hanger (for 10-pin thermistor plug).

Ordering specifications

Article nr	Description
8800E-CC/P	8800E, blue coiled cable, black (Euro EN13922) 10-pin plug.
8800E-CC/P/J	8800E, blue coiled cable, black (Euro EN13922) 10-pin plug, junction box.
8800E-CC/P/B	8800E, blue coiled cable, black (Euro EN13922) 10-pin plug, break-away junction box.

other configurations available upon request

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OPW Fluid Transfer Group: One Company, Five Brands



Dedicated engineered and patented solutions for pipe, tube and hose connections used for extreme applications high/low temperature & pressure and nuclear.

Examples: RapidLOK[™] for flange replacement; save vents and drains; locking quick connect; product recovery systems; cryogenic couplings; autoclave check valves ...

www.hiltap.com



Mechanical and electronic components and systems for the safe loading, transportation and offloading of hazardous fluids on road tankers.

Examples: flat bottom API's; bottom valves; vapour recover valves; overfill prevention system; sealed parcel delivery system; onboard monitoring system; crossover prevention system ...

www.civacon.com



Mechanical and electronic components and systems for the safe storage, transfer and loading of hazardous fluids at chemical plants, refineries and terminals.

Examples: loading arms for fuels, chemicals, bitumen; rack monitoring system; quick disconnects (kamlok[®], autolok[™]); dry disconnects (epsilon[™], drylok[™], kamvalok[®]); floating suction assemblies ...

www.opw-es.com



Components and systems for the safe loading, transportation and offloading of hazardous fluids and dry bulk on pressure & non-pressure railroad tank cars and dry bulk road tankers.

Examples: pressure & vacuum relief valves; needle valves; top transfer valves; valve actuator systems; overfill prevention systems ...

www.midlandmfg.net



Components for pneumatic tank trailers, rail cars, chemical and pharmaceutical plants, and any application requiring the processing, movement and storage of dry bulk or liquid materials.

Example: butterfly valves; ball valves; sample systems; actuators; aeration systems; swing check valves ...

www.suresealinc.com



From the European Head office near Amsterdam The Netherlands, these 5 OPW Fluid Transfer Group brands are supported. In addition Loading Arms, Tank Truck equipment and its related accessories are designed and manufactured here to serve the OPW FTG Europe BV territory.

www.opw-ftg.nl