

# OVERFILL PREVENTION SYSTEM



The Emco Wheaton F2020 Overfill Prevention System incorporates the latest fast response optic self-checking electronics for preventing the overfilling of bottom loaded petroleum tanker compartments during the terminal loading process. If the F2020 detects an overfill it will stop the flow, preventing a spill. It has been designed to meet the requirements of EN 13922, API RP- 1004 and EN 13922:2003 regulations.

The system (sensor, socket, cable and dummy) compliments the long established, high quality Emco Wheaton BLVR valve and systems.

## Key Features & Benefits

Self-checking electronics for maximum reliability and endurance

5 wire and 2 wire system options

2 wire for tankers with up to 8 compartments:

- Compatible with 10 pin socket only
- Connects each compartment to the system individually

5 wire for tankers with up to 12 compartments

- Compatible with 6 and 10 pin socket only
- Connects to the system through a series of compartments

Fluoro-elastomer seals compatible with petroleum products

Housing protection to IP66 with impact rating better than 09 (10 joule impact) for maximum durability

Compatible with all known

- Self-checking Electronics for Reliability
- No Product Losses
- Compatible with Other Systems





## Applications

The system can be fitted to both rigid and trailer system, it is also fully compatible with all known systems on the market.

- Heating Fuel Deliveries
- Deliveries to Off-Road Sites
- Bulk Retail

## Features & Benefits

### Probe (CANE)

- Available in 7" (135 to 180mm), 12" (278.752 to 325.25mm) and 15" (355 to 400mm) lengths. Other lengths available to order
- Fast response optic sensor detection
- Borosilicate glass prism resistant to fuels and solvents
- Two gland ports with M20x1.5 threads (PG16 and NPT threads available as options)
- ATEX Certified probe for use in zone zero flammable hazard area with group IIA gas
- Probe also available for sale as an aftermarket product

### Socket

- API-Compatible, allowing interface with all known optic control monitor plugs
- Manufactured in compliance with European regulation EN13922:2003 and API RP-1004
- For use with 2 wire sensors (optic and thermistor) and 5 wire optic sensors
- Includes ground connection pin
- Four slot (10 pin) and three slot (6 pin) sockets available

### Cable

- PUR > 440P 5 x 1 approved in compliance with regulation 73/23 EEC (Low Voltage Directive)
- Conductor colours: white, grey, blue, green and yellow
- Working temperature: -40°C to +90°C
- Flame retardant (IEC 60332.1)
- Tension test 3000V
- Tested according to VDE
- 5 wire and 2 wire cable available

### Dummy required for 2 wire systems of less than 8 compartments)

- Manufactured in compliance with European regulation EN13922:2003 (interchangeable with API RP-1004)
- CE test certificate type LOM 04ATEX2118
- Simulates up to 7 compartments
- Inverse polarity protection, protecting against erroneous installation
- Compatible with all known 2 wire controller

