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SDS Wired

SEALED DELIVERY SYSTEM

*Better by Design*

Emco Wheaton SDS Sealed Delivery System (Stand-alone, wired)

Wet stock asset management, health, safety and the environment, product and operator security and efficiency are all fundamental business issues in today's modern bulk transport management model.

The Emco Wheaton SDS wired, ATEX certified Electronic Sealed Delivery System provides electronic load sealing integrity. It also makes available the means to reduce vapour loss and eliminate tank top dipping which means that tanker top access should not be required.

SDS utilises electronic sensing technology together with proven engineered components to create an integrated, on-board electronic sealing solution.

The SDS API valve working in union with the pneumatic bottom valve, manifold valves and optionally with manhole cover sensors* provides an electronic seal for individual tanker compartments, recording any movement and wet/dry status between loading and discharge.

A combination of wet leg (liquid presence) and valve sensing are digitally processed and recorded to provide a complete sealed delivery system with clear individual tanker compartment status.

* Permanently sealed manhole covers may be used so that sensors are not needed.



When the tanker arrives to unload, the receiver simply has to check a visual digital display on the API valve to ensure that he will be receiving the full volume indicated on the carrier's loading ticket.

An audit trail – that can either be printed or downloaded – tracks events from loading to delivery. Up to 3000 events are stored in memory.

Power is provided by a battery that has a typical life of 4 years and includes a low battery power warning well in advance of power loss.

If a printer is used it is powered by the truck battery and isolated by the master switch.

Emco Wheaton SDS Sealed Delivery System (Stand-alone, wired)

The system comprises SDS API adaptors which incorporate movement and wet sensors, pressure switches, an LCD display, a central printer display console, power and pre-made wiring looms. Wiring complies with ADR requirements.

It is recommended that Emco Wheaton bottom valves are used due to their sequenced air operation which is utilised to enhance the sealing integrity. When used, pneumatic manifold valves are also incorporated.

The entire arrangement is essentially 'plug and play', simplifying fitting and set up.

Key features include:

- **Transparent Operation**
The driver/operator does not change their normal loading or unloading regime.
- **Simple Fitting**
Plug and play installation.
- **LCD Display**
Individual compartment status LCD display with picture symbols to cross language barriers.
- **Audit Trail**
The audit trail is non-volatile and records up to 3000 events (10 weeks at 5 trips per day).
- **Data Download or Printer**
Data can either be printed in a sorted or unsorted manner and if a printer is not required the PDC can have a data download port incorporated.
- **Onboard System**
The entire system is 'stand-alone' and self powered requiring no external devices to operate it.
- **Operating Temperature**
-20°C to +50°C
- **Increased security, safety and payload**
Sealed manhole covers may be used and tank top walkway, handrail and ladder removed.



Empty

Loading

Sealed & Wet

Unloading



Printer Display Console (PDC) with printer

COMPT	STATUS	DATE	TIME
3	Filling	05/02	15:21:12
3	Sealed	05/02	15:27:35
3	UnSealed API	05/02	16:42:37
3	Empty	05/02	16:48:35
1	Filling	05/02	15:24:54
1	Sealed	05/02	15:33:28
1	UnSealed API	05/02	16:51:12
1	Empty	05/02	16:57:05
2	Filling	05/02	15:23:09
2	Sealed	05/02	15:30:21
2	UnSealed API	05/02	16:50:01
2	API valve shut	05/02	16:50:01
2	API valve open	05/02	16:50:11
2	Empty	05/02	16:56:01

J/E/W/S: SDS Console Serial No: 000043
 S/W ver: SDSPO11E
 Print started at: 01/03/02, 20:02:55