



EMERGENCY SHUTOFF DRIVE (ESD)

WALLACE & TIERNAN® GAS DOSING TECHNOLOGY

The Emergency Shut off Drive (ESD) offers the highest level of safety when handling chlorine gas containers. Working in combination with a gas warning device, the gas containers are closed within a few seconds as soon as a leak is detected. The further leakage of chlorine gas can thus be prevented effectively. The ESD offers the operating personnel a significant level of safety since the chlorine gas room does not have to be entered to close the gas containers.

The electric drive is attached directly to the main valve of a gas container. The easy handling enables a quick container change. The system is also easy to install and can be retrofitted to existing installations at any time.

The central control has a display control unit with plain text display and an emergency stop button for immediate closing of the main valves. Connection options for a gas warning device and an external emergency stop button are available, as are alarm outputs for further transmission. In the variant ESD-RP 10 there is also the possibility, in combination with contact pressure gauges, to implement a residual pressure safety device in accordance with TRGS 745 for up to 10 gas containers.

Status messages are shown on the display. This enables the operator to recognize whether all valves have actually been closed. If the power supply fails, safety is ensured by an integrated battery.

Key Benefits

- Safe closing of the main valves of the gas containers within a few seconds
- The chlorine gas room does not have to be entered to close the gas containers
- Meets the requirements of DIN 19606: 2020-01
- No additional sealing points in the chlorine gas lines
- Easy installation or retrofitting in existing systems
- Fast container changes due to simple handling
- Intelligent drive with idle detection
- Safe operation through uninterruptible power supply (UPS)
- Data communication to building control rooms through Modbus TCP

TECHNICAL DATA

Drive

Intelligent 24V DC motor with integrated torque limitation

Degree of Protection: IP65

Control cabinet

Three variants available:

- ESD 7 for up to 7 drives
- ESD 11 for up to 11 drives
- ESD-RP 10 for up to 10 drives and residual pressure protection in combination with a contact Pressure gauge

Dimensions: 400 x 600 x 200 mm

Power Supply: 1/N/PE AC 120-230V 50/60Hz

Degree of Protection: IP65

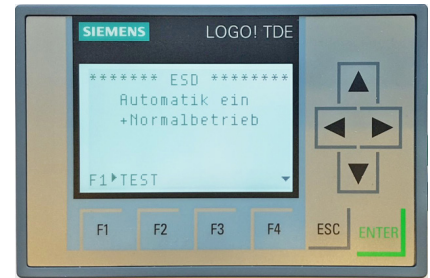
Battery Life: up to 2 years

Control Features

- Text display with multicolored backlighting for alarms messages
- 1 potential-free input for gas warning system
- 1 potential-free input for external emergency stop button
- 1 (4 *) signal relay (* only with ESD-RP 10)
- Data exchange via Modbus TCP
- Languages: English / German

Actuator Connection Cable

Cable length options: 3, 6 or 10mtr



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