

SmokeESC SDC-3100

Pressure Controller for Retrofitting

Device description

The SmokeESC SDC-3100 controls the angle of opening of dampers to protect evacuation routes from smoke. The SDC-3100 allows for the control of one or two dampers. The IV BUS communication bus enables integration with the FSC-3000 controller. The algorithms implemented in the device, IV Thrace, make it suitable for use in systems compliant with EN 12101-6 and EN 12101-13. This device is ideal for modernizing existing systems that have mechanical pressure-relief dampers by equipping them with precise and automatic pressure control.

Features

Innovation Vent Thrace Algorithms

Innovation Vent Thrace algorithms have been implemented in the SDC-3100 which speeds up commissioning and allows the device to be used in systems compliant with EN 12101-6 and EN 12101-13.

The most accurate pressure measurement

The device features a pressure sensor with a built-in temperature compensation mechanism. This ensures stable and accurate pressure readings without the need for periodic calibration.

Innovation Vent BUS

The IV BUS enables integration with the FSC-3000 regulator and control and testing of up to 24 SDC-3100 regulators from one place.

Digital communication

Data transmission using the Modbus RTU protocol via the RS485 standard.

Technical parameters

PARAMETER	VALUE
Supply voltage	24 V DC \pm 15%
Power consumption	typ. 70 mA, $I_{MAX} < 200$ mA
Battery	CR2032
Communication	USB, IVBUS, Modbus RTU
Operating temperature	from -25 °C to +50 °C
Differential pressure measurement range	from -500.0 Pa to 500.0 Pa
Output signal	0 - 10 V DC
Enclosure protection rating	IP54
Dimensions	250 × 170 × 90 mm
Weight	720 g

