ESSER
by Honeywell

Compact 1 loop fire alarm control panel

✓ **Integrated esserbus-PLus**

✓ **Short circuit and open circuit tolerant loop operation with stub cable exits**

✓ **Operation of bus-supplied, synchronously controlled alarm generators (optical/acoustic/voice) in different alarm areas via esserbus-PLus**

✓ **Length of the ring circuit (esserbus) up to 3.5 km**

✓ **Up to 127 esserbus devices (fire detectors or manual call points) / groups**

✓ **Operation of addressable ATEX detectors for potentially explosive areas**

✓ **Operating modes PM* and TM** for false alarm prevention**

✓ **Integrated interface for the transmission unit connected to the fire brigade and for the fire brigade operating panel**

Overview

The Compact is a powerful, professional one-ring circuit fire alarm control panel for monitoring small to medium sized premises with increased demands on reliability - redundancy through ring wiring. It allows simultaneous detection, control, and warning, both on the ring bus including stubs, as well as with the inputs and outputs built into the control panel, e.g., fire brigade interface, interface for fire control, outputs for conventional signal generators and other relays for individual controls.

The fire brigade peripherals (FBCP, FAT) or a remote control unit can be operated via the integrated RS485 interface.

The Compact is ideal for premises such as schools, kindergartens, nursing homes, doctors' offices, hardware stores, small hotels, shops, small businesses and manufacturing or retail.

Professional loop technology ensures economic efficiency even for small applications

The Compact fire alarm panel is designed in compliance with high performance loop technology. The esserbus-PLus is a short and open circuit resistant loop, offering highest operational reliability as well as cost saving installation options on account of reduced wiring through combined loop and spur topologies with a maximum length of 3.5 km.

Up to 127 bus devices can be divided in up to 127 detector zones, which guarantees a high degree of planning and application flexibility.

Each IQ8Quad detector is supplied with isolators, while other bus devices can be optionally provided with isolators. Thus, each bus device remains operative in case of wire break or short circuit. Only the corresponding part of the loop located between the affected bus devices with isolators is replaced.

The esserbus transponders are bus devices with freely programmable inputs and outputs for controlling and monitoring external devices or for connecting special detectors.
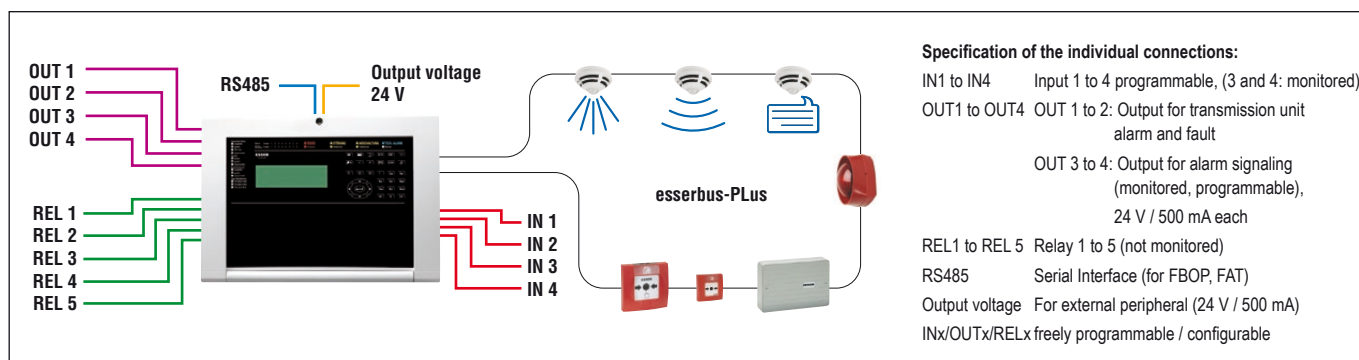
Innovative alarm signalling and evacuation

Innovative integration for optical and acoustic signalling devices, which are consistently installed via the powered loop network, is ensured by bus supplied alarm signaling devices and the Compact fire alarm panel. Thus, the Compact fire alarm panel, the loop powered signaling devices IQ8Alarm and the IQ8Quad fire detectors with integrated alarm devices provide an economic solution by means of minimized installation expenses.
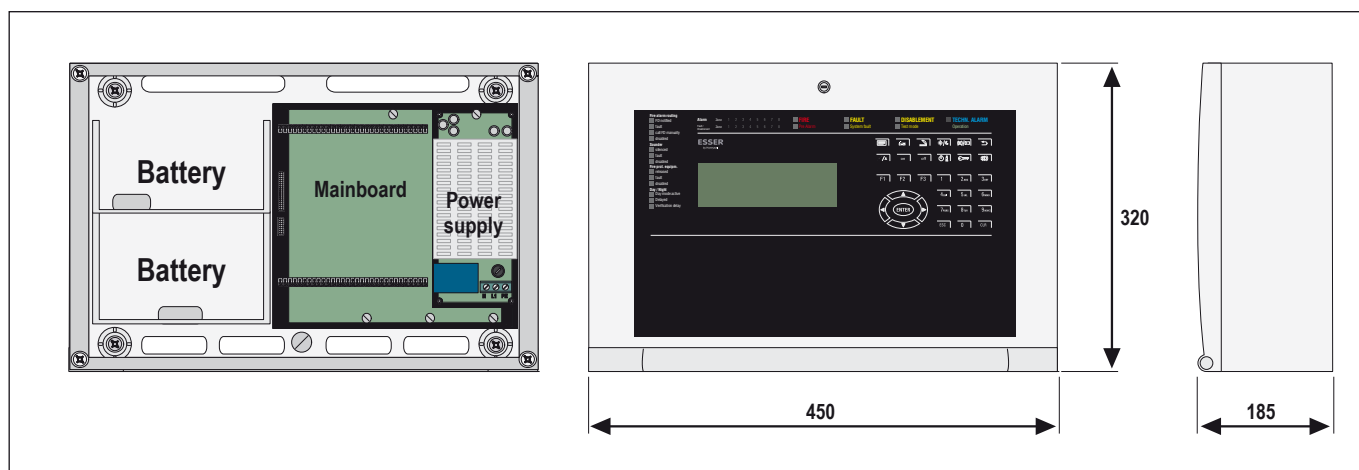
Easy installation and operation

The tools 8000 service and programming software package guarantees fast and simple commissioning. The settings are programmed directly at the control panel via a PC / laptop.

* PM: Verify/delay
**TM: Alarm intermediate storage, two-zone dependency for deceptive alarm suppression

esserbus PLus Loop   RS485 interface

Connections

Specification of the individual connections:

IN1 to IN4	Input 1 to 4 programmable, (3 and 4: monitored)
OUT1 to OUT4	OUT 1 to 2: Output for transmission unit alarm and fault
	OUT 3 to 4: Output for alarm signaling (monitored, programmable), 24 V / 500 mA each
REL1 to REL 5	Relay 1 to 5 (not monitored)
RS485	Serial Interface (for FBOP, FAT)
Output voltage	For external peripheral (24 V / 500 mA)
INx/OUTx/RELx freely programmable / configurable	

Dimensions

Specifications

Rated voltage	230 V AC
Rated frequency	50 … 60 Hz
Rated current	0.8 A
Battery capacity	2 x 12 V / 12 Ah
Operating current for external load	Max. 1.5 A
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-5 °C ... 50 °C
Protection	IP30
Housing	ABS, 10 % glass fiber reinforced, V-0
Color	gray, similar to Pantone 538
Weight	approx. 5 kg (without batteries)
Dimensions (W x H x D)	450 x 320 x 185 mm
VdS approval	G 214072
DoP:	DoP-21390140811

Order information headline Helvetica bold 10 / 14 — Part No.

	Part No.
Fire alarm control panel Compact, 1 loop, German	809051.01
Fire alarm control panel Compact, 1 loop, English	809051.02