



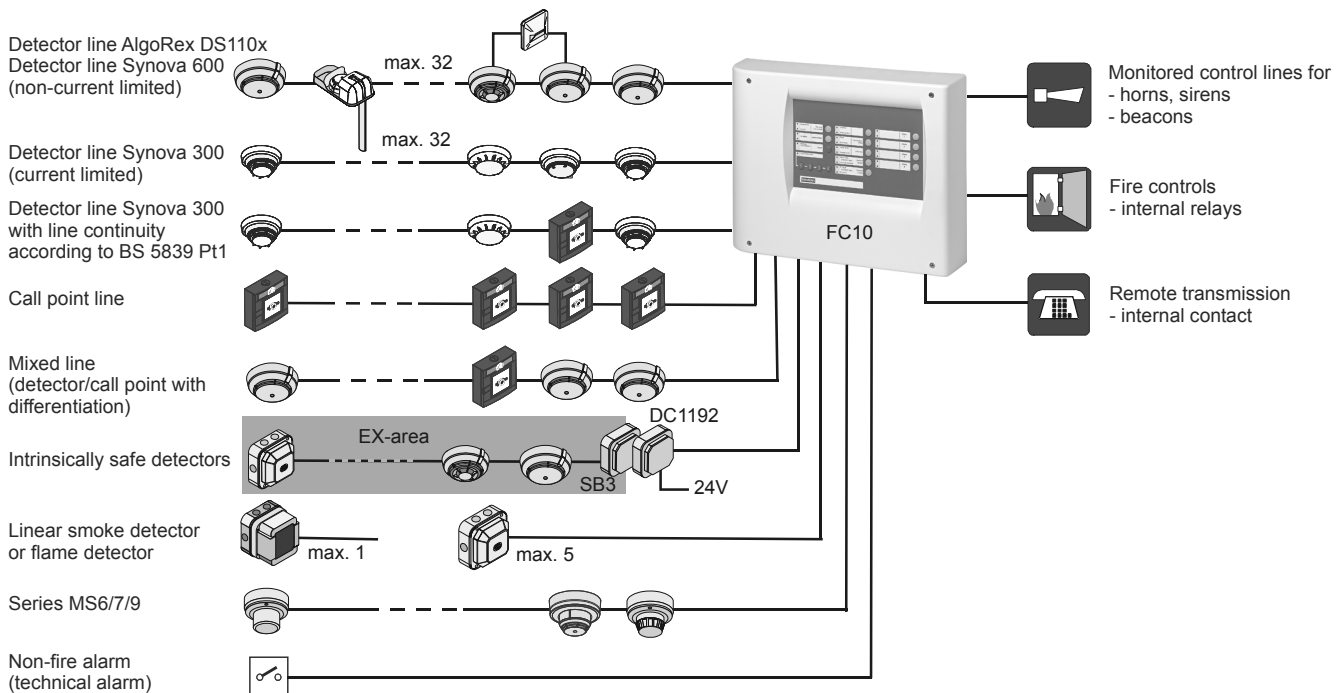
FC1002, FC1004

Fire detection control units



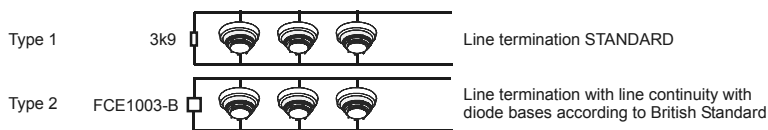
- 2 or 4 zones
- Compatible with all conventional Siemens detectors
- 2 selectable detector line standards for a wide range of detector compatibility
- 2 monitored control lines for sirens, strobe lights etc.
- Programmable alarm organization for manned/unmanned operation
- Alarm verification
- Cross-zoning
- Suitable to collect non-fire related events with non-latching zone option
- Simple user controls with isolate/test button per zone
- Key code user access with optional key switch alternative
- Easy on-site configuration
- Integral capacity for emergency power of up to 72 h
- Battery 7.2 Ah (2 x 12 V)
- Fulfills EN 54 and BS requirements

System overview



EOL

Detector line termination with two different types, depending on type of control unit.



The FC1002/04 is a compact 2 or 4 zone fire alarm control unit designed to be very simple to use while offering exceptional flexibility via a comprehensive feature list.

Detection

- Each line programmable for *current limited* or *non current limited* operation
- Detectors and call points on same line with functional differentiation (where allowed)
- Intrinsically safe detectors via line coupler DC1192 and safety barrier SB3
- Each line programmable for *non-latch* function and/or technical alarms
- Line continuity with diode bases according to British Standard

Inputs / Outputs

- Dry contacts for general alarm and fault
- 3 common control outputs
- 2 monitored control lines 24 V/500 mA for horns, flash lights, etc.
- 2 fire control relays, rated 10 A/250 V
- Driver outputs per detector line
- 3 control inputs (1 programmable)

PMI

- Individual indicator labeling with inscription stripe sets in various languages
- Individual zone isolate/test buttons for clear and easy user operation

Commissioning

- Basic functions that can be adapted on-site if required without laptop
- Simple “out of the box” start up with 8 selectable default configurations

Country variants

FC1002/04-B

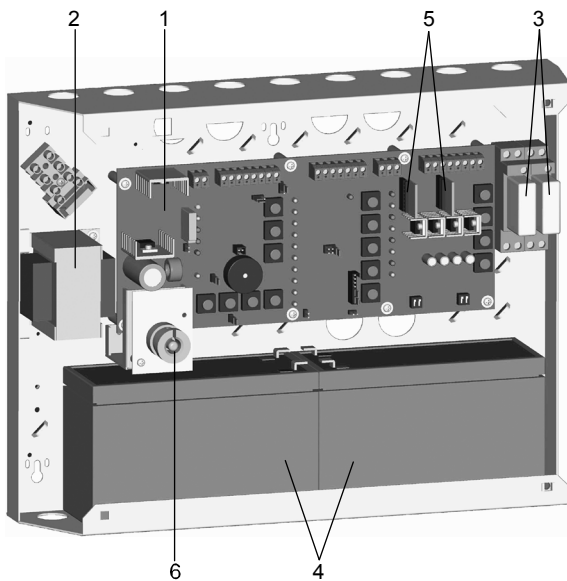
For British Standard (BS) market. Incorporates special detection circuit end-of-line monitoring which on removal of a detector will indicate a fault on the control unit but still allow devices fitted beyond the removed detector to function. Each detector base must be fitted with a continuity diode.

FC1002/04-C

For Nordic Countries. This unit comes fitted as standard with a Nordic fire authority key switch.

FC1004-E/I

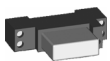
For Dutch Market. Incorporates additional evacuation control line and integral evacuation function.



Basic components

- 1 Main board with power supply and battery charger
- 2 Transformer (0.7 A)
- 3 Fire control relays (optional)
- 4 Battery 7.2 Ah (2 x 12 V)
- 5 Add-on card for line continuity British Standard (BS), only FC1002/04-B
- 6 Key switch Nordic, only FC1002/04-C

Accessories to FC1002/4 (options)



Relay module Z3B171

1 changeover contact 250 VAC/10 A for the connection of fire control installations such as fire doors.
Accessory for all control unit types.



RT-isolation card FCA1005-D

To provide hardware disconnecting facility for the remote transmission channels.
Accessory for all control unit types.
Quiescent current: 0 mA



Battery AX1204

Gas-tight lead battery 12 V/7.2 Ah



Key switch FCA1007

To provide operating access via key switch instead of password.
Accessory for all control unit types, except FC1002/04-C

Reference documents

| | | |
|--------------------|-------------------|------------------|
| Doc. No. 008099_-- | FC10 8/12 zone | Data sheet |
| Doc. No. 007990_-- | FC1002/04-A/-B/-C | Technical manual |
| Doc. No. 009784_-- | FC1002/04-H | Technical manual |
| Doc. No. 007990_NL | FC1004-E | Technical manual |
| Doc. No. 009785_-- | FC1004-I | Technical manual |
| Doc. No. 007995_-- | FC10 | Operating manual |

Technical Data

| | |
|---------------------------------------|--|
| Supply voltage | 115/230 VAC, +10 %/-15 %, 50/60 Hz |
| Power consumption | 13... 25 VA |
| Quiescent current | |
| FC1002-A/-B/-C/-H | 80 mA |
| FC1004-A/-B/-C/-E/-H/-I | 90 mA |
| Emergency power operating | ... 72 h |
| Outputs | |
| Dry contact Alarm | 30 V/1 A, NO/NC |
| Dry contact Fault | 30 V/1 A, NO/NC |
| Fire control relays (optional, 1...2) | 250 V/10 A, NO |
| monitored control lines (2) | 24 V/500 mA |
| Driver outputs (5 or 7) | 24 V/40 mA |
| Control inputs (3) | Positive potential via dry contact |
| Operating temperature | 0... +50 °C |
| Storage temperature | -20... +60 °C |
| Humidity (no condensation permitted) | |
| at T = 25 ±3 °C | ≥95 % rel. |
| at T = 40 ±2 °C | 93 % rel. |
| Cabinet | |
| Dimensions (W x H x D) | 370 x 286 x 90 mm |
| Color cover | FC10xx-A/-B/-C/-E white, RAL 9003 FC10xx-H/-I black, RAL 7016 |
| Protection category (IEC 60529) | IP40 |
| Standards | EN 54 / BS |

Details for ordering

| | Type | Part no | Designation | Weight |
|---------------|-----------|-------------|---|----------|
| Control units | FC1002-A | A6E60500000 | Control unit conventional 2 zone | 4.080 kg |
| | FC1002-B | A6E60500001 | Control unit conventional 2 zone GB | 4.080 kg |
| | FC1002-C | A6E60500002 | Control unit conventional 2 zone Nordic | 4.200 kg |
| | FC1002-H | A5Q00020247 | Control unit conventional 2 zone (OEM) | 4.080 kg |
| | FC1004-A | A6E60500003 | Control unit conventional 4 zone | 4.200 kg |
| | FC1004-B | A6E60500004 | Control unit conventional 4 zone GB | 4.200 kg |
| | FC1004-C | A6E60500005 | Control unit conventional 4 zone Nordic | 4.300 kg |
| | FC1004-H | A5Q00020248 | Control unit conventional 4 zone (OEM) | 4.080 kg |
| | FC1004-E | A6E60500006 | Control unit conventional 4 zone NL | 4.200 kg |
| | FC1004-I | A5Q00020249 | Control unit conventional 4 zone NL (OEM) | 4.200 kg |
| Accessories | FCA1005-D | A6E60500024 | RT-isolation card | 0.039 kg |
| | FCA1007 | A6E60500026 | Kit key switch standard | 0.175 kg |
| | Z3B171 | 4843830001 | Fire control relay | 0.040 kg |
| | AX1204 | 2522560001 | Battery 12V/7.2 Ah | 2.481 kg |

| Inscription stripes shipped with each control unit | Control unit type | Language of inscription stripes | |
|--|--------------------------|---|---|
| | FC1002/04-A | English, French, German, Italian, Spanish, Flemish, Portuguese, Polish, Czech, Slovakian *) | - |
| | FC1002/04-B | English | - |
| | FC1002/04-C | Swedish, Danish, Norwegian, Finnish | - |
| | FC1002-I, FC1004-E/-H/-I | Dutch | - |

*) Inscription stripes for other languages can be generated using, a special Word template (available at Hotline)

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