## CONTROL PANELS

### Control Panels of the FX 3NET (ALC) Fire Detection System

**The FX 3NET intelligent fire detection and alarm system and panels from Schneider Electric have a modular construction and provide new features for efficient and reliable fire safety.**

**The control panels are FX 3NET, FXL 3NET, FXM 3NET and FXS 3NET.**

**The full range of Schneider Electric's intelligent and conventional detectors can be connected to the system.**

A versatile built-in control logic enables easy control of both passive as well as active fire protective equipment and even a three-stage alert and evacuation alarm.

The system is compatible with other fire detection equipment, such as the fireman's panel FMP2, zone led panel ZLPX, alarm delay panel DAP2, communication protocol repeater REPX and multipurpose controller MCOX, as well as alarm management system ESGRAF. The system also provides an integration server interface, which enables integration to the building management system.


*Figure 1. FX 3NET and FXL 3NET control panel*


*Figure 2. FXM 3NET control panel*


*Figure 3. FXS 3NET user interface*

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## Panel installation

The FX panel is installed on a surface with the display at a height of approximately 170 cm. The wall has to be strong enough to support the weight of the panel and the batteries.

## Connections

See overleaf for general overview of the connections of FX 3NET panels.

Cable entries are from behind, from above and from below.

## Commissioning and Configuration

The system can be started after the jumper settings are verified. For customer/site specific settings and entry of alarm texts, a PC and licensed software "WinFX3Net" is used.

For further information, see the FX 3NET Installation and Commissioning Guide.

## Technical data

*Table 1. FX 3NET Fire Alarm Panels technical data*

| | Control panels | | | |
|---|---|---|---|---|
| | **FX 3NET** | **FXL 3NET** | **FXM 3NET** | **FXS 3NET** |
| Product code | FFS0070 3602 | FFS0070 3702 | FFS0070 3800 | FFS0070 3814 |
| Dimensions (h*w*d) [mm] | 578 x 425 x 130 | | 328 x 425 x 130 | 328 x 417x79 |
| Weight (fully equipped, excl. batteries) | 11 kg | 12 kg | 6 kg | 4.4 kg |
| IP Rating | IP30 | | | |
| Operating ambient temperature | +5…+40°C | | | |
| Storage ambient temperature | 0…+50°C | | | |
| Maximum ambient humidity | 95% RH | | | |
| Back frame material | sheet steel | | | |
| Cover material | plastic | | | |
| Cover colour | bluish grey | | | |
| Mains supply voltage | 230 VAC ±10% / 50 ... 60Hz | | | NA |
| Mains supply power | 165 VA | | 80 VA | |
| Operating voltage range | 19 ... 30 Vdc | | | |
| Maximum current consumption in standby condition | 1.0 A @ 24 Vdc | | 0.5 A @ 24 Vdc | 0.5 A @ 24 Vdc |
| Maximum current consumption in alarm condition | 4.8 A @ 24 Vdc | | 2.2 A @ 24 Vdc | 1.0 A @ 24 Vdc |
| Applied standards | EN54-2<br>EN54-4 | | | EN54-2 |

Schneider Electric reserves the right to make modifications.

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## Construction of the FX 3NET panels

| | | Control panels | | | | Note |
|---|---|---|---|---|---|---|
| | | FX 3NET | FXL 3NET | FXM 3NET | FXS 3NET | |
| Base units | FX-UI2 user interface | 1 | 1 | 1 | 1 | |
| | FX-MC2 master controller | 1 | 1 | 1 | 1 | |
| | FX-PSA power supply | - | - | 1 | - | Note 1 |
| | FX-PS2 power supply | 1 | 1 | - | - | Note 1 |
| | Card slots | 5 | 9 | 2 | 1 | Note 2 |
| Card slot options | Loop controllers 1…4 pcs together | | | | | Note 3 |
| | - FX-ALCA, 1 Intellia loop | 0…4 | 0…4 | 0…2 | 0…1 | |
| | - FX-ALCB, 2 Intellia loops | 0…4 | 0…4 | 0…2 | 0…1 | |
| | - FX-CLC, 16 conventional loops | 0…4 | 0…4 | 0…2 | 0…1 | |
| | Control units 1…4 pcs together | | | | | |
| | - FX-IOC | 0…4 | 0…4 | 0…2 | 0…1 | |
| | - FX-OCA | 0…4 | 0…4 | 0…2 | 0…1 | |
| | REPX-OB protocol repeater | 0…1 | 0…1 | 0…1 | 0…1 | |
| | MCOX-OB logic control unit | 0…1 | 0…1 | 0…1 | 0…1 | |
| | ZLPX-IC | 0…1 | 0…1 | 0…1 | 0…1 | |
| UI2 place options | Display units | | | | | Note 4 |
| | - FX2-LB32 panel display units | 0…1 | 0…1 | 0…1 | 0…1 | |
| | - FX-LB80 zone display units | 0…1 | 0…1 | 0…1 | 0…1 | |
| Battery space | Batteries | 2 pcs 12 V/17 Ah | - | 2 pcs 12 V/12 Ah | - | Note 5 Note 1 |

| | |
|---|---|
| **Note 1** | FXS requires a power feed from an FXM, FX or FXL panel. Available power from that panel may restrict the current consumption of the FXS panel. |
| **Note 2** | Card slots are for ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC option boards. |
| **Note 3** | Loop controllers are optional. The maximum number of loop controllers is 1 in FXS, 2 in FXM and 4 in FX and FXL. |
| **Note 4** | Only 1 display unit per panel.<br>The FX-LB80 is used in the UK. |
| **Note 5** | Batteries of the FXL 3NET panel are installed in a separate FX BAT cabinet. |

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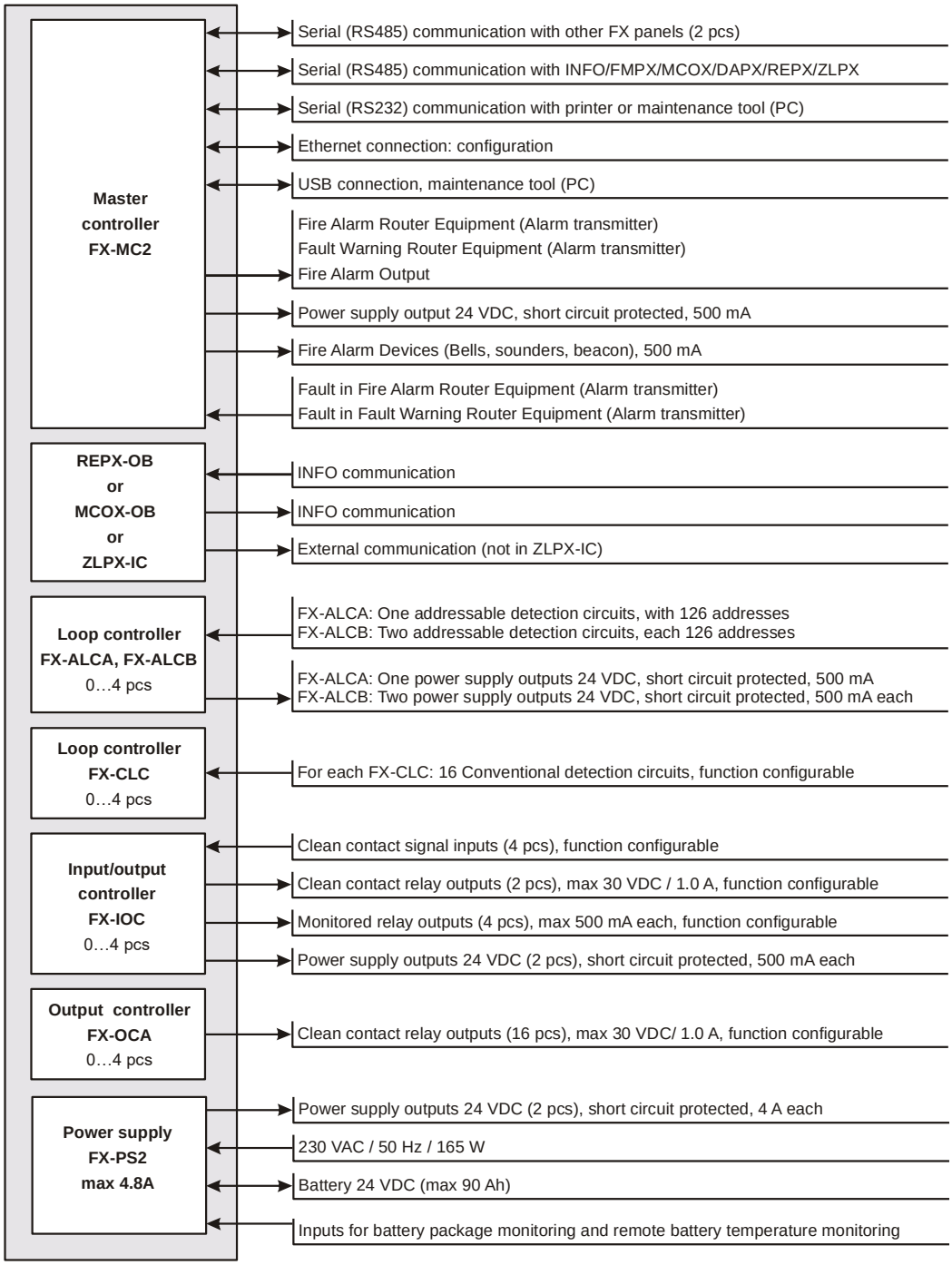
## FX 3NET and FXL 3NET panel external connections




**Note!** The maximum total load of the panel is 1.0 A in normal condition and 4.8 A in alarm condition. The maximum number of ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 5 in FX and 9 in FXL.

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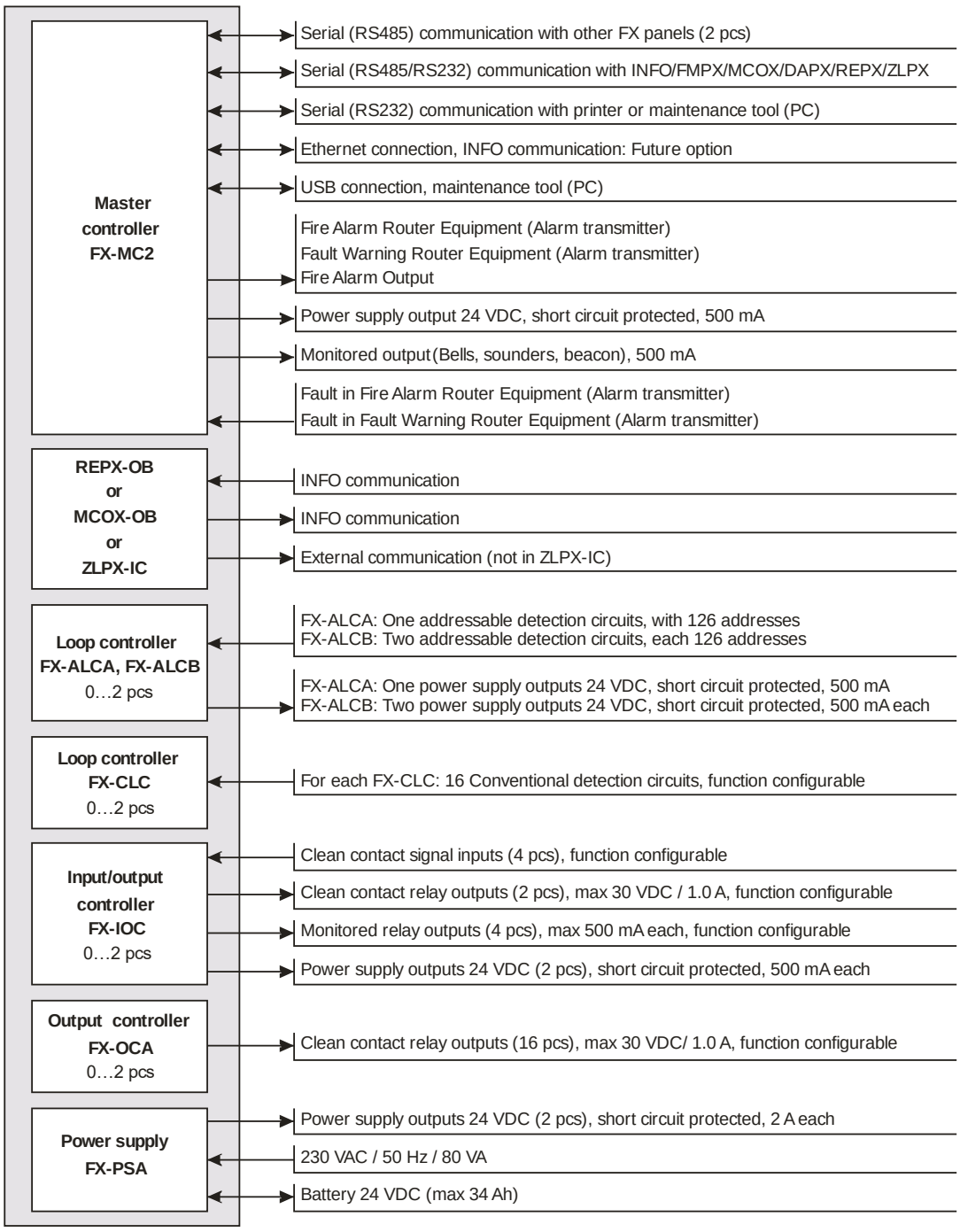
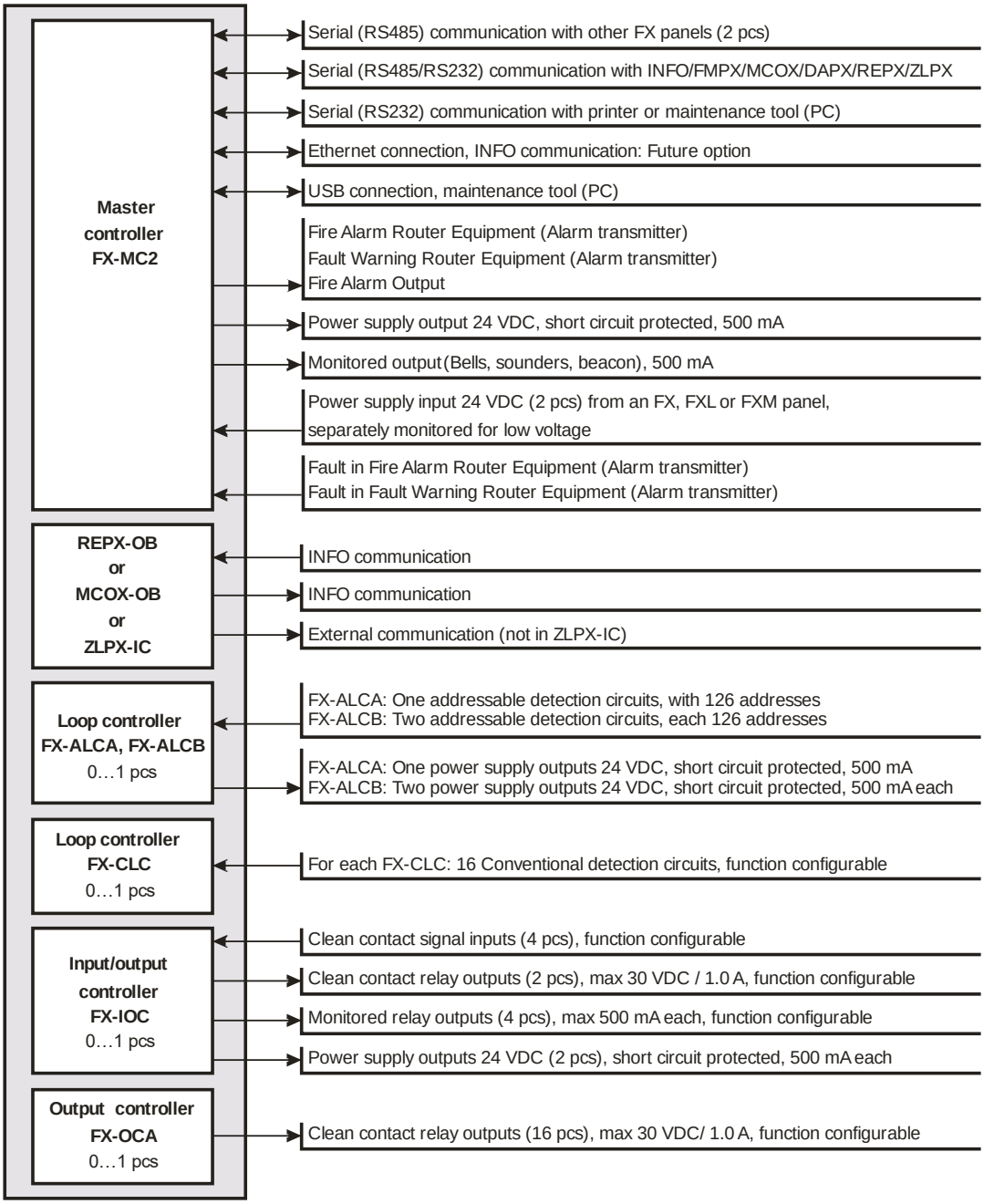
## FXM 3NET panel external connections




**Note!** The maximum total load of the panel is 0.5 A in normal condition and 2.2 A in alarm condition. The maximum number of ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 2.

## FXS 3NET panel external connections




**Note!** The FXS 3NET panel requires a power feed from an FX 3NET, FXL 3NET or FXM 3NET panel. The maximum number of ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZPLX-IC boards is 1.

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