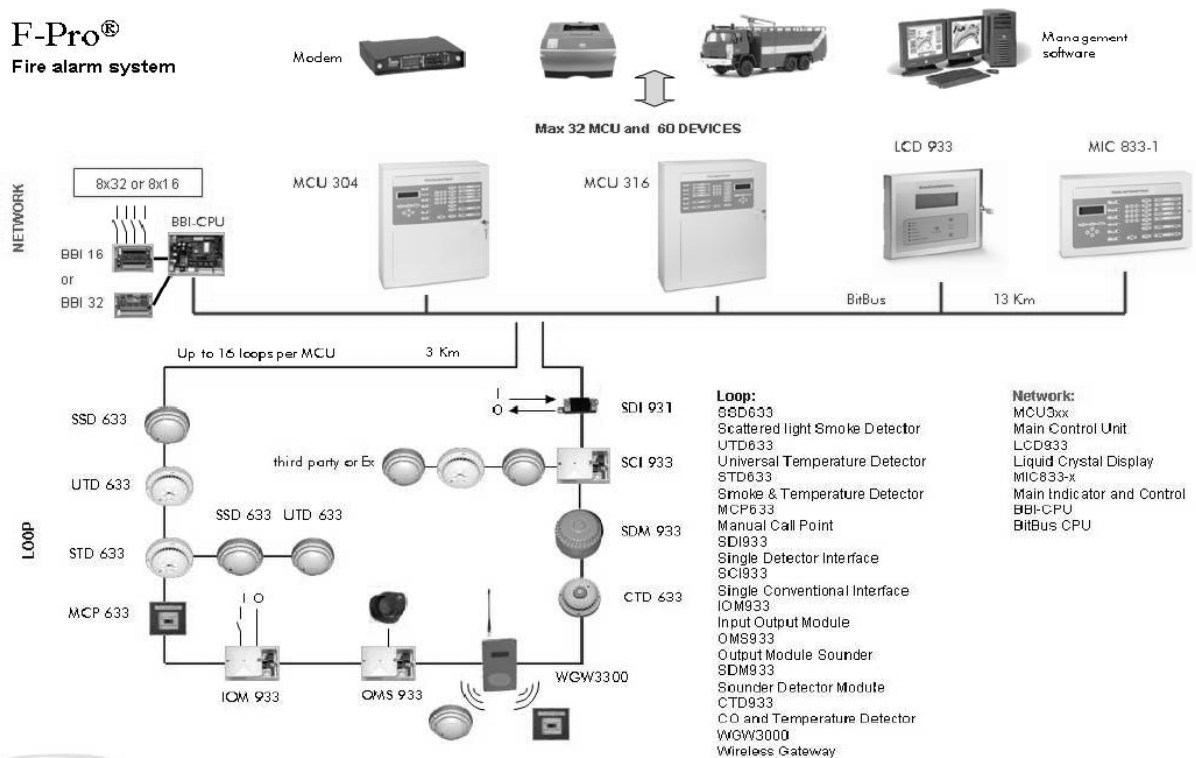


# Fire Control System

## F-Pro System

All components comply with EN54 standards and the detectors are available in a range of styles to service international markets. Extensive model analysis and multi criteria sensors combined with powerful algorithms ensure ease of use with simple operation and extensive maintenance and diagnostic facilities. The integrated system log provides the facility for comprehensive analysis and adjustment of detector parameters to ambient conditions. The system utilises redundant paths and measurement techniques to ensure a high degree of system reliability and stability.

### F-Pro® Fire alarm system



## Fire alarm control panel MCU304

Order-No. MCU304



### Main Control Unit - 4 loops

- Microprocessor-controlled, modular fire alarm control panel
- Compact sheet steel wall-mounted housing, color RAL 7035
- Integrated controls with numerical keypad and function keys
- 126 programmable zones
- Connection for 4 loops (2 loop interfaces) resp.
- 16 conventional type zones (2 conventional type interfaces)
- Includes foil front for maximum for 48 detector zones
- Includes power supply (3 A) with temperature compensation
- Central, fully monitored coordination computer
- LCD display with 4 x 20 characters and cursor keys
- 3 potential free contacts (alarm, fault, master fire brigade alarm)
- 9 OC (open collector) outputs
- Standard RS 232 (V.24) interface
- Log printer may be incorporated in front door
- Does not include detector components and zone LEDs
- Technical specification:
  - Mains voltage: 230 Vac, 50/60 Hz
  - Operating voltage: 24 Vdc
  - Power supply: 3 A
  - Battery capacity: 26 Ah / 24 V
  - Standby current: 86 mA
  - Interfaces: 1x RS 232 and 1x BitBus (optional)
  - Supervised controlled output: 24Vdc /400 mA
  - Output 24 V for external use 800 mA
  - Dimensions (H x W x D): 490 x 420 x 210 mm
  - Housing: sheet steel, RAL 7035 (housing), RAL 7046 (cover)
  - Weight: 14 kg w/o batteries

**VdS approval No. G 205110**

Order-No. MCU304-Flat



### Main Control Unit - 4 Loops Flat version

Same as MCU 304 with flat Metal Box

- Dimensions (H x W x D): 490 x 420 x 150 mm
- Housing: sheet steel, RAL 7035 (housing) RAL 7046 (cover)
- Weight: 12,5 kg w/o batteries

**VdS approval No. G 205110**

Order-No. MP304

Photograph not available

### Mounting plate MCU304

Mounting plate for MCU304 for LED and printer modules

Dimensions (H x W): 400 x 483 mm

Order-No. MCU304-Rack



### Main Control Unit - 4 loops. Rack version

Same as MCU304, but suitable for rack mounting.

Dimensions: 6HU x 19" x 150mm

**VdS approval No. G 205110**

Order-No. LK-xx

**Language kit for MCU 304**

Panel firmware language kit. Check with Fittich technical support for language availability and delivery time.

Photograph not available

Please replaced XX with following codes:

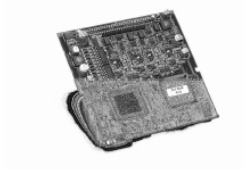
GB - English  
 D - German  
 IT - Italian  
 CS - Serbian  
 SK - Slovak  
 CZ - Czech  
 HU - Hungarian  
 RU - Russian

Order-No. LCB10

**Loop Control Board - 1 loops**

- Intelligent loop interface for use in MCU
- 1 loops for intelligent loop devices of series 632 and 633
- Max 126 loop devices can be connected
- Max length of loop/line 3000m with cable 0.8mm<sup>2</sup> cross-section
- Automatically controls addressing of all loop devices
- Relay triggering of loop devices
- Optional redundant processor
- Combination of conventional type technology via SCI933
- Up to 60 detector polling routines per second
- 8 user-programmable OC outputs
- 1 OC group output for alarm, fault and cut-off
- Non-volatile memory for system configuration and system parameters
- COM port for configuration and data polling
- Monitoring of line voltage / current and lines
- Windows-based service, diagnosis and installation software I-Check
- Technical specification:
  - MCU connection: via ribbon flat cable
  - Loop connection: 2-wires
  - Capacity: 1 loops, max. 126 devices
  - Operating voltage: 20-28 VDC
  - Standby current: 50 mA @ 24VDC (w/o detectors)
  - Line voltage: 30VDC
  - Loop/loop length: max 3000m @ 0.8mm<sup>2</sup> or 2000m @ 0.6mm<sup>2</sup>
  - Data coding, loop: Manchester code
  - Current limit, loop: 100mA
  - Operating temperature: 0 to 40°C
  - LEDs: green LEDs for status of processor
  - Outputs: 11 OC, 30VDC/50mA
  - Dimensions (H x W x D) 148 x 140 x 30 mm

**VdS approval No. G 205110**

**Order-No. LCB20****Loop Control Board - 2 loops**

Same as LCB 10 with the following differences:

- 2 loops for intelligent loop devices of series 632 and 633
- Max 252 loop devices can be connected
- Technical specification:
  - Capacity: 2 loops, each with 126 devices = max. 252 devices
  - Current limit, loop: 2x100mA

**VdS approval No. G 205110**

**Order-No. LCB20-A****Loop Control Board Active - 2 loops**

Same as LCB 20 with the following differences:

- Technical specification:
  - Capacity: 2 loops, each with 126 devices = max. 252 devices
  - Current limit, loop: 2x140mA

**VdS approval No. G 205110**

**Order-No. LCB20-1****Loop Control Board redundant processor - 2 loops**

Same as LCB20 but 100% redundant by 2nd processor

**VdS approval No. G 205110**

**Order-No. CCB20****Conventional Control Board - 8 lines**

- Intelligent conventional interface for use in MCU
- 8 conventional lines for conventional detectors series 630
- Max 8 x 25 = 200 detectors connectable
- Programmable functions by the MCU
- 2-detectors and 2-zones dependency
- Intermediate alarm storage per zone
- Direct alarm for each zone can be activated
- Diagnosis with LCD display of the line current
- Electronic, freely programmable alarm output per zone is available
- Module is completely regulated by micro processor
- Can be mixed with other detector zones in analogue technology

**Order-No. LM08****8 zones module-single display**

- For MCU301 and MCU304
- Extends zone LEDs to a maximum of 48 detectors zones
- For more than 16 detectors zones, one adapter module is required, order-No.LM08-AM

Order-No. LM08-AM

**Adapter module detector zone 17- 48**

- For MCU301 and MCU304
- Using more than 16 detector zone-LEDs, this adapter PCB has to be installed into the control unit
- This PCB regulates the detector zone LEDs 17-48
- Only necessary in combination with addressable system LCB20

Order-No. EXT933

**Extinguishing board for 1 area**

- for fire control panel MCU304.
- for direct controlling of an extinguishing system in an extinguishing area.
- for multirange extinguishing a controlling module is necessary for every extinguishing area (per valve).
- activation by conventional as well as by analogue detectors possible
- 4 monitored control lines for signal transmitter and solenoid valve
- 4 potential-free relay contacts
- Technical specification:
  - outputs: relay 4 x 30 V DC/ 1 A
  - monitored outputs: 4 x signaltransmitter: 24 V DC / 0,5 A
  - magnetic valve: 24 V DC/1 A
- Installation: same place as LCB20

**VdS approval: G 295 054**

Order-No. TU933

**Transmission unit (TU) interface**

- For fire control panel MCU304
- Monitored activation for main detector
- Connection for a fire service control panel
- Connection for a key-deposit (SD) adapter, incl. repeat signals for SD
- Controlling of delayed transmission of the main fire alarm with day/night mode and switch on/off main alarm relay (TU)
- incl. TU display/control module

Order-No. TU933-1

**Transmission unit (TU) display module**

- For, MCU304 and MCU316
- incl. repeat signals for SD adapter
- Controlling of delayed transmission of the main fire alarm with day/night mode
- Switch on/off main alarm relay (TU)

## Fire alarm control panel MCU316

Order-No. MCU316



### Main Control Unit - 16 loops

- Microprocessor-controlled, modular fire alarm control panel
  - Compact sheet steel wall-mounted housing, color RAL 7035
  - Integrated controls with numerical keypad and function keys
  - 192 programmable zones
  - Connection for 16 loops (8 loop interfaces) resp.
  - 64 conventional type zones (8 conventional type interfaces)
  - Includes foil front for maximum for 128 detector zones
  - Connection for 1 additional peripheral device
  - Interface for connecting fire brigade panel, SD adapter and main detector
  - Central, fully monitored coordination computer
  - LCD display with 4 x 20 characters and cursor keys
  - 3 potential free contacts (alarm, fault, master fire brigade alarm)
  - 9 OC (open collector) outputs
  - 2x RS 232 for printer and PC programming, modem or fire brigade panel
  - Technical specification:
    - Mains voltage: 230 Vac, 50/60 Hz
    - Operating voltage: 24 Vdc
    - Power supply: 8 A
    - Battery capacity: 40 Ah / 24 V
    - Standby current: 190 mA
    - Interfaces: 2x RS 232 and 1x BitBus
    - Supervised controlled output: 3x 24Vdc /400 mA
    - Output 24 V for external use 2x 800 mA
    - Dimensions (H x W x D): 750 x 600 x 240 mm
    - Housing: sheet steel, RAL 7035
    - Weight: 30 kg w/o batteries
- VdS approval No.: G 203067**

Order-No. MP316

### Mounting plate MCU306

Mounting plate for MCU306 for LED and printer modules

Photograph not available

Order-No. MCU316-Rack






### Main Control Unit - 16 loops. Rack version.

Same as MCU306, but suitable for rack mounting.  
Dimensions: 6HU x 19" x 150mm

**VdS approval No. G 203067**



Order-No. LK xx 316	<p><b>Language kit for MCU316</b>          Panel firmware language kit. Check with Fittich technical support for language availability and delivery time.          Please replaced XX with following codes:          GB - English          D - German          IT - Italian          CS - Serbian          SK - Slovak          CZ - Czech          HU - Hungarian          RU - Russian</p>
Photograph not available	
Order-No. LCB21	<p><b>Loop Control Board redundant processor - 2 loops</b></p> <ul style="list-style-type: none"> <li>• For MCU316</li> <li>• Redundant by 2nd processor</li> <li>• Technical data as LCB20</li> </ul>
	
Order-No. LCB21-A	<p><b>Loop Control Board Active - 2 loops</b>          Same as LCB 21 with the following differences:</p> <ul style="list-style-type: none"> <li>• Technical specification:              Capacity: 2 loops, each with 126 devices = max. 252 devices              Current limit, loop: 2x140mA</li> </ul>
	
Order-No. CCB21	<p><b>Conventional Control Board redundant processor - 2 loops</b></p> <ul style="list-style-type: none"> <li>• For MCU316</li> <li>• Redundant by 2nd processor</li> </ul> <p><b>Please note:</b> When upgrading it is absolutely necessary to name the type of control unit and software version.</p>
	
Order-No. EXT933-1	<p><b>Extinguishing board for 1 area</b></p> <ul style="list-style-type: none"> <li>• for fire control panel MCU316.</li> <li>• for direct controlling of an extinguishing system in an extinguishing area.</li> <li>• for multirange extinguishing a controlling module is necessary for every extinguishing area (per valve).</li> <li>• activation by conventional as well as by analogue detectors possible</li> <li>• 4 monitored control lines for signal transmitter and solenoid valve</li> <li>• 4 potential-free relay contacts</li> <li>• Technical specification:              outputs: relay 4 x 30 V DC/ 1 A              monitored outputs: 4 x signaltransmitter: 24 V DC / 0,5 A              magnetic valve: 24 V DC/1 A</li> <li>Installation: same place as LCB20</li> </ul> <p><b>VdS approval: G 295 054</b></p>
