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## FC501 Addressable Fire Control Panels

The FC501 easy-to-programme control panel has a 4-line, 40 character per line, LCD module display with a backlight, which provides written information regarding the system status, such as temperature, CO level, and smoke level, and is also used for programming the control panel.

The front panel controls enable text and configuration changes.

The FC501 auto-addressing panel has 3 in 1 loops that can support up to 128 addressable devices and 32 zones.

There are two versions available (1.8 A or 2.7 A power supply), as well as an optional IP board.

**Figure 1: FC501 addressable fire control panel with FC500 repeater**



### Specifications

- The enclosure and front cover are plastic.
- H x W x D: 369 mm x 335 mm x 115 mm

# Features

## Panel Features

- Up to 400 mA current dynamically shared across 3 circuits in 1 loop
- Auto mapping with Intelli-Zone feature
- Onscreen help function
- USB interface dual role Host/Device
- Multi users and multi installers (Up to 2 installers, 8 users)
- Walk test function
- 4000 Event Log
- Loop break location
- Onboard PSTN communicator
- GSM/GPRS as external module
- Up to 4 repeaters and multifunction interfaces for printer/simplified fire brigade panels
- Event transmission through PSTN and IP
- Automatic drift compensation

## Software Features

- Fast and simple system configuration, also offline
- Transferable user database
- Device status graphic visualization
- Battery and wiring calculation
- Customizable cables database
- Visualization of all the devices assigned to a single zone
- Remote real time visualization of control panel loop and zone status, and so on
- Easy Remote user interface with control buttons (reset, silence, evacuate)
- Multilevel map based on a tree structure
- Access device data from any pages of the map
- Configuration downloadable to USB memory stick
- Capability to print zone label sheet for front panel customization

## Order information

**Table 1: Product and accessories order information**

SKU	Product
<b>Variants</b>	
557.200.719	FC501-L: Triple Circuit Single Loop Control Panel with Icons UI - 1.8 A PSU
557.200.718	FC501-H: Triple Circuit Single Loop Control Panel with English UI - 2.7 A PSU
557.200.720	FC501-HK: Triple Circuit Single Loop Control Panel with Icons UI - 2.7 A PSU
<b>Accessories</b>	
508.031.742	FC500MFI: Multifunctional Interface
508.031.743	FC500IP3: IP Module

**Table 1: Product and accessories order information**

SKU	Product
508.032.036	FC500BX: Cabinet for 38 Ah Batteries
508.032.037	USB 5 m: USB 5 m cable type A
508.032.042	FC500DISP Spare Display
557.202.726	FC-MAE: FC500 Panels Monitoring Software
557.200.727	FC500 FireClass Repeater
557.202.132	FireClass Connected Services Gateway (CSG) with an enclosure. Includes a power cable and a serial cable. Only the external gateway is supported.


## Performance characteristics

**Table 2: Performance characteristics**

	FC501-L	FC501-H and FC501-HK	FC500
Dimensions H x W x D	369 mm x 335 mm x 115 mm		234 mm x 345 mm x 55.7 mm
Weight	3 kg		2.7 kg
Operating Temp	-5°C to 40°C		
Storage Temp	-40°C to 80°C		
Humidity	Up to 95% Non Condensing		
Supply Voltage	230 VAC 50 Hz - 15/+10%		19 VDC - 30 VDC
PSU I <sub>max</sub>	1,8 A	2,7 A	NA
Aux output rated voltage	27,6 VDC	27,6 VDC	NA
Max Battery Capacity	12 Ah	12 Ah - 38 Ah external box	NA
Loop Power	200 mA	400 mA	NA
IP Rating	IP30		IP30
Enclosure colour (cabinet and cover)	RAL 7035		

# Approvals

**Table 3: Approvals**

	 0051 19 Tyco Fire & Security GmbH, Victor von Bruns- Strasse 21, 8212 Neuhausen am Rheinfall, Switzerland.	CPR Approval			MED	European Type Approvals					International Listings		
		EN 54-2	EN 54-4	EN 54-21		LPCB	VDS	AFNOR	FNO	SB SC	FP ANZ	HK FSD	TFTF
FC501-L	DoP-2015-4218	x	x	x									
FC501-H	DoP-2015-4219	x	x	x									
FC501-HK													
FC500IP in FC501-L FC501-H FC501-HK	DoP-2015-4211			x									
CSG-F	DoP-2023-4308	x		x									

All required Declarations and certificates are publicly available on the website [www.fireclass.net](http://www.fireclass.net) and are searchable by number or model name. The above fire detection products are components designed for use in Addressable Systems exclusively available to registered partners. They are intended for installation by trained registered personnel. Systems should be installed and configured according to local regulations.

## Comparison of FC501, FC503, and FC506 features

**Table 4: Comparison of FC501, FC503, and FC506 features**

Feature	FC501	FC503	FC506
<b>Addressable loops</b>			
No. of Loops	1	1	2
Loop Splitter / Sub-Loops	3	3	6
Max Current Draw per Loop	0.5 A*	1 A*	1 A*
No. of Devices	128	250	500
<b>Outputs</b>			
Fault	1	1	1
Fire	1	1	1
Programmable Open collector Outputs	2	2	2
USB Interface	1	1	1
RS232 Interface	1	1	1

**Table 4: Comparison of FC501, FC503, and FC506 features**

Feature	FC501	FC503	FC506
RS485 Interface	1	1	1
24V (for RS485 Devices)	1, Max Current: 0.5 A	1, Max Current: 1 A	1, Max Current: 1 A
24 V Auxiliary	1, Max Current: 0.5 A	1, Max Current: 1 A	1, Max Current: 1 A
24V Resettable	1, Max Current: 0.5 A	1, Max Current: 1 A	1, Max Current: 1 A
Sounder / NAC Outputs	2, Max Current: 0.5 A per NAC	2, Max Current: 0.5 A per NAC	2, Max Current: 0.5 A per NAC
<b>Power supply</b>			
AC Mains Voltage	230 VAC -15%/+10%, 50-60Hz		
PSUs	BAW75T24 (27.6 V, 2.7 A)	BAQ140T24 (27.6 V, 5.5 A)	BAQ140T24 (27.6 V, 5.5 A)
Maximum Battery Capacity (Inside Panel)	2 (12 Ah)	2 (17 Ah)	2 (17 Ah)
Maximum Battery Capacity	38 Ah	38 Ah	38 Ah
Battery Optional Box	YES	YES	YES
Panel Cabinet	Plastic Box, Plastic Cover	Metal Box, Plastic Door	Metal Box, Plastic Door
<b>Management software</b>			
Software	FireClass console	FireClass console	FireClass console
Communication Channels	RS232, USB, RS485,IP	RS232, USB, RS485,IP	RS232, USB, RS485,IP
Software Zones	32	128	256
Number of zonal LEDs	8	8	8
Auto Addressing	YES	YES	YES
Events logged	4000	4000	4000
FC500 MFI Interface	4	4	4
FC500 Repeaters	4	8	8
FC500 Clients	No Support	7	7
<b>Standard compliance</b>			
EN54-2	x	x	x
EN54-4	x	x	x
EN54-21	x	x	x
<b>Communicators</b>			
PSTN (Voice, Data)	Onboard	Onboard	Onboard
IP	FC500IP, add on	FC500IP, add on	FC500IP, add on
Gateway	CSG, add on	CSG, add on	CSG, add on

**Note:**

\*Absolute maximum value, the panel displays a warning on the screen when the current exceeds 80% of the maximum value.

When the CSG is connected to a panel for internal or external use, the onboard PTSN and FC500IP card are inactive. The CSG has its own onboard PSTN and IP communication functions.