



Type

Order No.

FC1820



**FC1820 Fire Alarm Controller**  
**FC1840 Fire Alarm Controller**

- Multi-language operation menu designed Windows-like for fast and easy operation.
- Shortcut key (right key) for popping out operation items of equipment/event.
- Large history storage size for up to 10,000 records, first-in-first-out order; all events can be recorded during operation period.
- LCD backlight Auto-off mode. When no operation or message to display within preset time, LCD backlight will automatically turn off. When there are events / operations, LCD will light up automatically to display events and/or interlock devices.
- 2 channels of programmable input/output (Output: 40mA@24VDC can be programmed as general alarm output or general trouble output; Input: dry contact).
- 1 channel of NAC for audible and visible devices (max. 0.5A @24VDC).
- 8 channels of interlocking functions for automatic control and manual operations of control equipment.
- Efficient group programming according to different usage.
- FC1820 controller can connect up to 252 points; FC1840 controller can connect up to 504 points.
- Up to 16 controllers can be networked together.
- Max. distance of controller network bus (FC18-BUS) 1,000m.
- Twisted paired cable for polarity-free detection bus (FD18-BUS); max. loop distance up to 2,500m, and max. stub distance up to 1,500m. (wiring capacity from 1.0 to 1.5 mm<sup>2</sup>)
- Three user levels for different operation authority. Each user level accessed by pre-defined, changeable password.
- Convenient pluggable terminals with clear marks for field wiring.
- Auto-mapping function supports commissioning task.
- Detection algorithm can be adjusted by controller according to different environment to provide high reliability of alarm report and reduce false alarms.
- Programming either directly from controller or computer.
- "Sticker Method" for ease of on-site commissioning.
- FD18-BUS detection bus can be configured as loop or stubs.
- FC18-BUS controller bus can be configured as stub.

S54420-C1-A1

FC1840



S54420-C2-A1

	FC1820	FC1840
No. of line modules	1	2
Maximum load-factor	252	504
LCD screen	320 × 240 pixels, backlit	
No. of programmable input/output on main board	2	
No. of zone of interlocking panel	8	
No. of NAC (0.5mA @24VDC)	1	
Maximum history records	10,000	
Max. distance between controllers within FC18-BUS	1,000 m	
Max. No. of controllers connected within FC18-BUS	16	
Max. distance between controller and FRT within FR18-BUS	1,000 m	
Max. No of FRT connected to controller	32	
Auto-mapping function	Operation from terminal	
Battery (not included)	12 VDC, 12 Ah × 2	
Communication interface	Special converter module	
Input voltage	220 VAC, 50 Hz	
Power supply capacity	5 A@24 VDC	
External power output	1 A@24 VDC	
Size (mm)	437 × 408 × 197	
Weight (without battery)	10.35 kg	
Power fuse	220 VAC@1.5 A	
Battery fuse	24 VDC@5.0 A	
Operating temperature	0 ~ +40 °C	
Storage temperature	-10 ~ +50 °C	
Relative humidity	≤95% (40 ± 2 °C)	
Protection category	IP30	
Environment requirement	Indoor / Clean	

Datasheet

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