

FRN 3002

Intelligent Addressable Fire Alarm Control Panel

Product Features:

- Up to 324 addresses for one loop.
- 4.3" color screen LCD, resolution of 480x272.
- Zone indication and control panel for 32 zones give a quick indication of the location of an alarm.
- Record capacity of 1000 historical events with date/time stamp.
- Integral power supply and battery.
- Integral printer.
- A standalone programmable conventional sounder circuit output
- Flexible and intuitive cause and effect programming on front of panel,
- Output module manual start/stop facilitates the commissioning and operating.
- It supports the detector/module testing individually.
- USB port makes the load and save of configuration data or historical data convenient for system commissioning and maintenance.
- Hierarchy management with three access levels.
- Anti-tamper protection by a key lock
- Networkable: CAN bus for interconnection of up to 20 FACPs and Ethernet for up to 255 FACPs.



POWER SUPPLY

Mains supply	230VAC (-15%, +10%). 47 ~ 63Hz. Max current 0.8A
Mains fuse	T3.15AL250V
Operating voltage	18.5 ~ 30VDC
Recommended mains cable	Standard/black mains cable, cable size 0.75mm ²
Power rating	I _{max.a} =1.2A; I _{max.b} =2.6A; I _{min} =0.65A
Max. charging current	1.2A
Max. battery supply current	4A (when the Mains is disconnected)
Battery capacity, type and recommended model	Max. capacity 2×12V/17Ah; Min. capacity 2×12V/12Ah VRLA. PS-12170 for 17Ah (Power-sonic), PS12120 for 12Ah (Power-sonic)
Max. internal resistance of battery	1.5Ω
Battery fuse	F8AL250V
Recommended battery cable	14AWG
Quiescent current (full loaded)	< 0.4A

OUTPUTS

S.C. Out (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.5A
	Fuse rating	F1AL250V
	End of line resistor	4K7
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
	Transmission distance	≤1500m
	Max. number of sounders @50mA	20

F.P.E. Out (+,-) F.A. Out (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.5A
	Fuse rating	F1AL250V
	End of line resistor	4K7
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
	Transmission distance	≤1500m
Fault Out (NC, COM, NO)	Contact capacity	30VDC@2A, 125VAC@0.5A
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
24VK (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.6A
	Fuse rating	F1AL250V
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
INPUT		
Class change (+, -)	Input mode	Passive
	Cable resistance	≤500Ω
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
LOOP		
Loop Out (+, -) Loop In (+, -)	Output voltage	16.5 ~ 30VDC, pulse
	Output current	0 ~ 0.3A
	Loop type	Class A
	Recommended type of cable	Unscreened twisted-pair, 1.5mm ²
	Transmission distance	≤1000m
	Cable diameter	1mm ² ~ 2mm ²

NETWORK COMMUNICATION

RS-485	Max. number of FIPs	30
	Transmission rate	9600 bps
	Recommended type of cable	Unscreened twisted-pair, 1mm ²
	Transmission distance	≤1000m
	Cable diameter	1mm ² ~ 5mm ²
CAN	Max. number of panels	20
	Transmission rate	Optional: 10K, 20K, 50K and 100K bps
	Recommended type of cable	Unscreened twisted-pair, 1mm ²
	Transmission distance	≤1000m
	Cable diameter	1mm ² ~ 5mm ²

PHYSICAL DIMENSIONS

Approx. Dimensions of the panel (W×H×D)	430×560×170mm
Approx. weight (without battery)	14kg

OPERATING CONDITIONS

Temperature range: 0°C~ 45°C; Max relative humidity: 95% (40°C ± 2°C, no condensation)