

# FIRE ALARM PANEL

# FAP128N SERIES

## FEATURES

- Save-cost and save-space
- Available for 30, 40 and 50 fire alarm zones
- Conventional type
- Alarm verification type
- Name plate and a digital display for alarmed zones
- Programmable output signal
- Ni-Cd stand-by battery built in
- Telephone handset built in for maintenance
- Programmable function at site
- Automatic self-checking
- Various test functions for maintenance
- Surge arrester built in for power lines

## DESCRIPTION

The FAP128N series fire alarm panel was developed to provide a cost- and space-saving conventional fire alarm panel together with more user-oriented functions.

The height of the panel comes to approximately 80% of that of our last 40-zone fire alarm panel. The weight of the panel is reduced by approximately 70% of that of our last 40-zone fire alarm panel.

The cabinet is made with steel sheet having a depth of 1.2 mm (Door panel) and 1.6 mm (Cabinet).

### <Alarm inputs>

Conventional fire detectors and manual alarm boxes are connected to alarm input circuits to give visual and audible alarm at the panel and to actuate alarm bells.

The FAP128N series fire alarm panel has a line-up of 30, 40 and 50-alarm input circuits (zones). Each alarm circuit has an alarm verification function.

### <Auxiliary inputs>

Five auxiliary input signals can be connected to auxiliary input circuits to be displayed it on the panel. They may be used for non-alarm input signals.

### <Signal outputs>

2 representative alarm signals are available.

20 voltage-free contacts are available for signal output.

A group of output signals for 2 Annunciator Panels (FIP116N).

A group of signals for a Fire Pump Starting Relay Box

### <Digital display>

The 2-digit digital indicator displays not only alarming zones but also trouble which happened in the fire alarm panel and in the system.

### <Alarm bell activation>

There are 2 modes to activate alarm bells. One is to actuate all alarm bells at the same time, called general alarm. The other is to actuate a group of alarm bells depending on the location of a fire, called localized alarm.

One pair of terminals is available for the general alarm. The programmable 20 voltage-free contacts are used for the localized alarm.



### <Automatic self-checking>

The following are automatically monitored at all time.

- Detector circuits for continuity
- Connection of the battery and fuse blown-out
- Microcomputer chip and memory chips for abnormal running
- Main fuses for blown-out
- Connectors and signal transmission circuits for interruption of communication between PCBs
- Main circuit voltage for over limit and under limit

The alarm input circuits are automatically checked once a week for normal operation.

### <Programming>

The following are programmable for setting and canceling with a template on the panel.

- Non used-alarm input circuits without putting dummy loads
- Alarm verification function to alarm-input circuits
- Interlocking auxiliary input signals with an audible alarm at the panel
- Interlocking alarm input signals with representative alarm signals
- An audible alarm at the panel during main power off
- Interlocking alarm input signals with 20 voltage-free contact outputs

### <Fire protection-related device control>

FAP128N series fire alarm panel has only fire alarm functions. FCS128N series fire alarm panel is available not only for fire alarm functions but also control functions for fire protection-related devices such as smoke vents, fire extinguishing system etc.

Contact our distributor in your region for the details of FCS128N series.

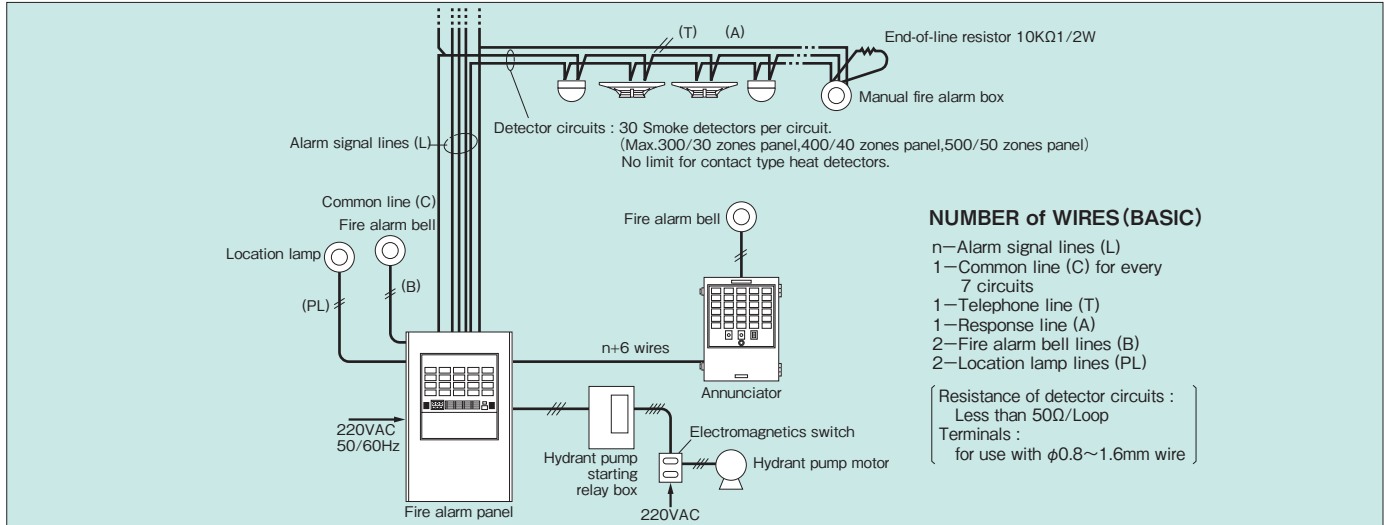
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# FIRE ALARM PANEL FAP128N SERIES

CAT.NO. **D**-F-9006

## TYPICAL WIRING DIAGRAM



## SPECIFICATIONS

Model No.	FAP128N SERIES
TYPE	Wall-mounting type
POWER SUPPLY	220VAC 50/60Hz
AUXILIARY POWER SUPPLY	Ni-cd battery (24VDC, 0.9Ah or 1.2Ah (for 50L))
CIRCUITS VOLTAGE	5, 24, 48VDC, 24VAC
POWER CONSUMPTION	Approx. 40VA for monitoring Approx. 100VA for alarming
NOMINAL ALARM VERIFICATION TIME	Thermal detector : 10sec., Smoke detector : 60sec.
MAXIMUM NUMBER OF APPARATUS TO BE CONNECTED	Smoke detectors : 30/zone (Max.300/30 zones panel,400/40 zones panel,500/50 zones panel) Alarm bells : 45 (24VDC, 10mA/bell) Location Lamps : 18 (30V, 2W/lamp) 52 (24VDC, 21mA/lamp)
AMBIENT TEMPERATURE	0 to 40°C, 20to85% (RH)
LOOP RESISTANCE OF ALARM INPUT CIRCUIT	Less than 50Ω/loop
END-OF-LINE RESISTOR	10kΩ, 1/2W
TERMINAL BLOCK	Insert type terminals suitable for solid conductors with a diameter of 0.8 to 1.6mm Use pin type solderless contacts for stranded conductors.
MATERIALS (ENCLOSURE)	Steel sheet
COLOR	Nohmi yellow : Nearly to Munsell no. 2.5Y 9/1, semi-glare
DIMENSIONS	700mm (H) × 530mm (W) × 125mm (D)
WEIGHT	Approx. 22kg

## ORDERING INFORMATION

30-zone fire alarm panel	FAP128N-B1-30L
40-zone fire alarm panel	FAP128N-B1-40L
50-zone fire alarm panel	FAP128N-B1-50L
30-zone fire alarm panel with protection device control function (20 zones only)	FCS128N-B2-30L
50-zone fire alarm panel with protection device control function (30 zones only)	FCS128N-B2-50L

- These instructions do not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation and maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on above specifications.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purposes, the matter should be referred to Nohmi or a distributor in your region.

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