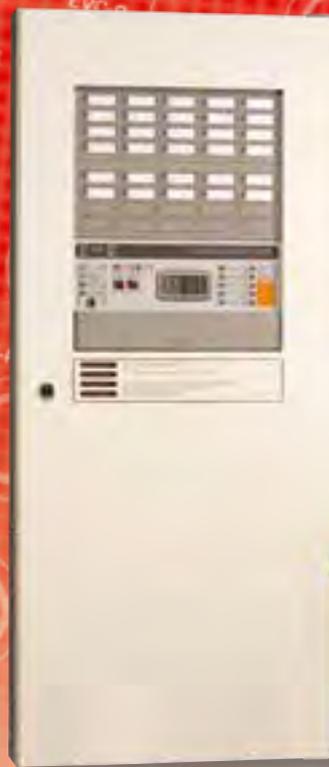


Fire Alarm Systems

JP Product Range Guide



NITTAN



Global Life Safety Solutions

Business Overview

The Nittan Group has been at the very forefront of the international fire protection industry since 1954 and has sales, R&D and manufacturing bases in Japan, Vietnam, and the UK. Throughout the world, Nittan has an enviable reputation for continuous innovation and exceptional quality. The group currently enjoys around \$400million turnover worldwide and manufactures millions of detectors each year, while pursuing a commitment to total excellence in everything we do.

Despite its position as a major global fire safety specialist company, Nittan always prides itself in providing a dedicated and personal service to its clients. When you look to Nittan to provide you with an optimum fire safety solution, you'll enjoy all the major benefits of dealing with a world leader – while receiving a personal level of service and support that few large companies could ever hope to achieve.



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Fire Alarm Systems

In addition and as a completion to the fire detection solutions listed in this catalogue, NITTAN offers also a complete selection of advanced products.

For further information, please contact NITTAN overseas business division from:

<http://www.nittan.com>

Conventional Fire Alarm Control Panels

1PM3



1PM3-30L

High reliability, Advanced fire detection

- Re-sounding mode of panel alarm sounder
- Individual alarm delay OFF function
- CPU trouble back-up function
- Output for local alarm bell sounding Emergency PA system interlocking

Simple design for installation, operation and maintenance

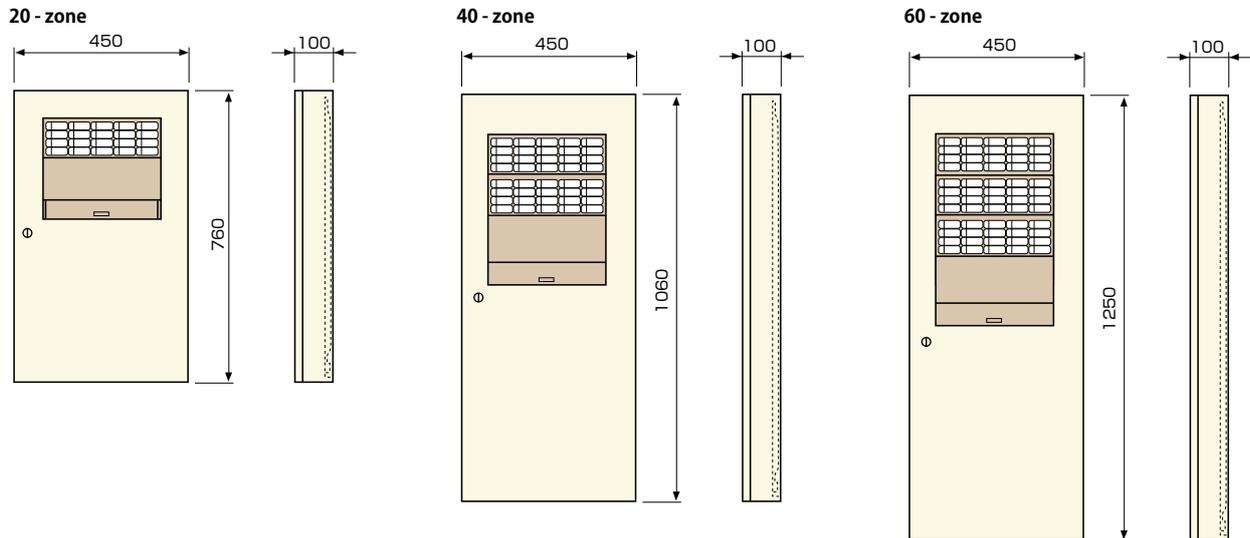
- Lightning protection
- Alarm delay ON/OFF switch
- Auto reset switch
- Maintenance switch (all alarm silence)
- Plug-in type terminals
- Color Universal Design for people with color vision deficiency

Self-diagnosis function

- Constant monitoring disconnection of detector line
- Monitoring circuit voltage low
- Monitoring CPU trouble
- Monitoring fuse blow
- Monitoring disconnection of standby battery
- Constant monitoring disconnection of emergency PA line



Dimension



Specifications	1PM3-nLA					
Number of zones	10	20	30	40	50	60
Number of bells (10mA)	20			30		
Number of bell blocks	10	15		20		
Power supply	AC220V±10% (50/60Hz)					
Indicator light	0.4A (AC25V)					
Standby battery	0.45Ah			1.2Ah		
Dimensions (W x H x D mm)	450 x 760 x 100		450 x 1060 x 100		450 x 1250 x 100	
Weight	18 kg		25 Kg		30kg	

1PV0

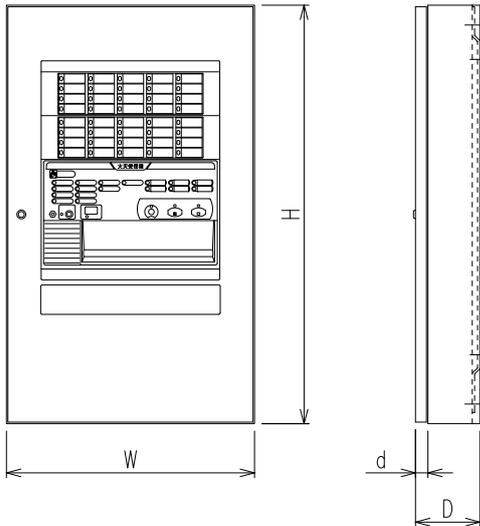


1PV0-40YD

Main features

- Large indicators and switches for easy operation
- Indicating the alarm zone and troubles by digital display with 7 segments LEDs
- Event history log stores up to 1000 of alarm and operation histories
- Monitoring detector circuit open, short and ground fault condition
- Lightning protection circuit for external lines
- Available in 10 to 160 zone models
- 1PV0-nL series for fire alarm
- 1PV0-nY series for fire alarm with smoke control
- Panel buzzer beeps with sweep tone for easy awareness

Dimension



Model	Mounting	Fire zones	Dimensions(mm)
1PV0-10L/-10YA	Wall	10	W 500 H 850 D 130 d 25
1PV0-20L/-20YB		20	
1PV0-30L/-30YB		30	
1PV0-40L/-40YD		40	
1PV0-50L/-50YD	Floor	50	W 500 H 1100 D 130 d 25
1PV0-60L/-60YD		60	
1PV0-J-70L/-70YH ? 1PV0-J-160L/-160YM		70 ? 160	

Specifications	1PV0
Number of zones	10 to 160 zones
Number of detectors	Smoke : Max 40 pcs/zone, 20 x zones pcs in total
End of line device	CRE, 10k Ω , 20 k Ω
Alarm delay time	For smoke detector: 60 sec. For heat detector: 20 sec.
Local alarm belles	DC24V 10L-15L: 0.3A, 20L-70L: 0.45A, 80L and more: 0.6A
Number of bells (10mA)	10L-15L: 30, 20L-70L: 40, 80L and more: 60
Power supply	AC220V \pm 10% (50/60Hz)
Standby battery	DC24V, Sealed Type Ni-Cd Battery
Power supply for smoke control	1A
Number of annunciator	1 unit (PSH series)

2PD1-10L



Main features

- Compact size
- Alarm delay function
 - Heat detector : 20 sec
 - Smoke detector : 60 sec
- Supervision of detector lines and fault conditions
- Energy saving technology for its running cost
- Lightweight (Using flame retardant ACS resin)
- High reliability minimizes maintenance cost
- Surge absorber
- Push-in terminals
- Built-in backup battery

Specifications	2PD1-10L
Number of zones	10
Number of detectors	Heat type (2SC series): Required number Smoke type (2KH series) : 20 / zone
End of line device	CRE
Alarm delay time	Nominal alarm delay time : 60 sec (Heat :20sec / Smoke : 60sec)
Local alarm bells	DC24V 0.1A (B,BC)
Indication lamp	AC25V 0.6A (PL,PL')
Common alarm contact	Max load : DC24V 1.0A (GA,GB,GC)
Number of bells (10mA)	10
Power supply	AC220V±10% (50/60Hz)
Standby battery	DC24V 0.45Ah
Dimensions	W200 x H280 x D65mm
Weight	2.2kg

2PM0

Coming Soon!

The 2PM0 is a new fire alarm control panel equipped with user-friendly interface to improve operation.



Information Display
Fire Alarm Info

Main features

- Simple system structure
 - One unit for 5 zones of detectors and 5 zones of smoke control
- Smoke control function
- Information Display
 - Built-in display can show various information such as battery level, and alarm/trouble condition.
- Voice Alarm in English
- Panel configuration without PC and tool
- Equipped with various signal transfers
 - common fire, common trouble, AC trouble, fan damper activation etc.
- Lightweight
 - 11 kg including a standard battery
- Large control switches for easy-to-use
- Color Universal Design for people with color vision deficiency



Specifications	2PM0
Number of zones	5 zones for detectors / 5 zones for smoke control
Number of detectors	Smoke : Max 40 pcs/zone, 100 pcs in total
End of line device	CRE, 10kΩ, 20 kΩ
Alarm delay time	For smoke detector: 60 sec. For heat detector: 20 sec.
Local alarm belles	DC24V 0.2A (B, BC)
Number of bells (10mA)	20
Power supply	AC220V±10% (50/60Hz)
Standby battery	DC24V, 1.65 Ah, Sealed Type Ni-Cd Battery
Dimensions	W375 x H600 x D100 mm
Weight	11.0 kg (including battery)
Power supply for smoke control	1A (D1 - D5; DC)
Power supply for annunciator	150mA / Number of Annunciator (PSC type) : Max 2 units

Remote Tester

MTT

MTT is a useful device for conducting remote test and smoke sensitivity test for compatible detectors. MTT improves maintenance works efficiently!

Eco-friendly
Non-Freon Tester

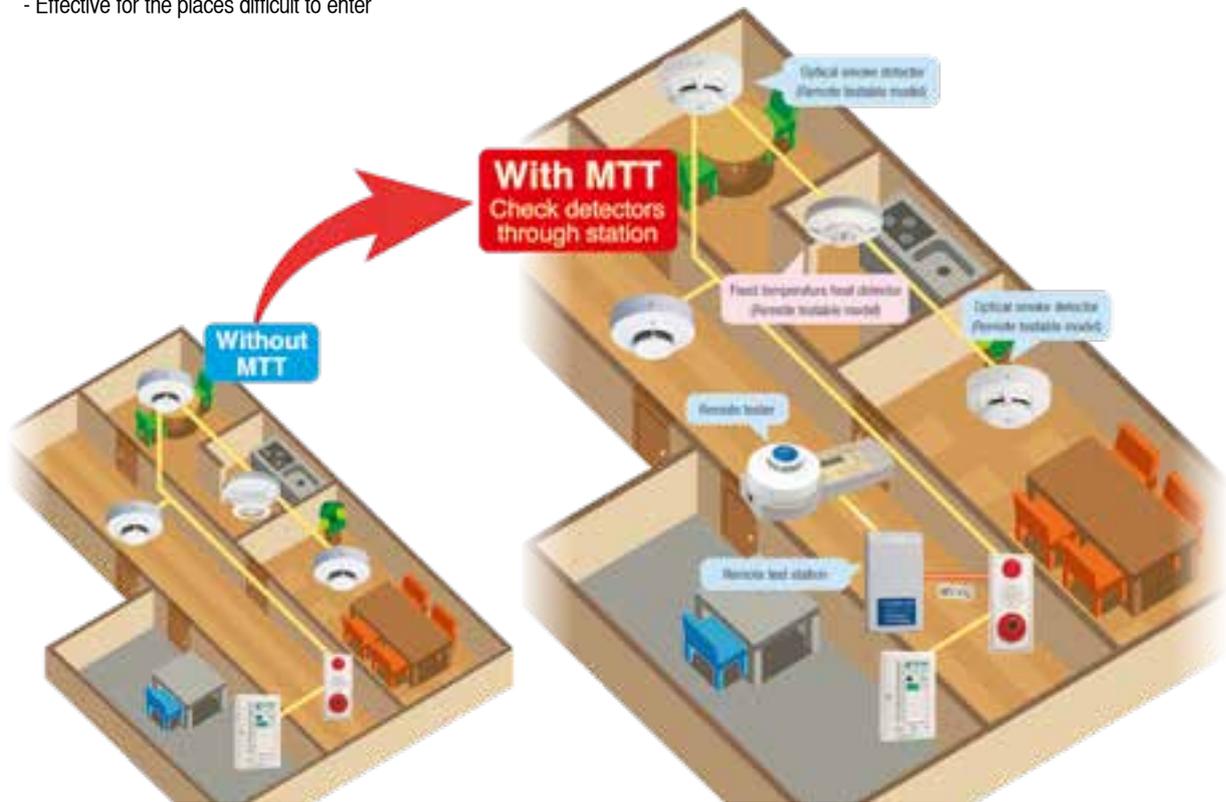


Main features

- Portable type
 - Lightweight, battery powered model
- Fire alarm test
 - Remote test from/through the test station
- Smoke detector sensitivity test
 - Test available without removing detectors
- Detector contamination check
 - Simple operation to check the detector contamination
- Improve test and maintenance efficiency
 - Effective for the places difficult to enter



Smoke detector sensitivity
[01] 10.0 [%/m]



Detectors and test stations compatible with the MTT

PK2B-DP-006



Dual optical smoke detector

➔ P.8

PS2B-PH-014



Rate of rise heat detector

➔ P.8

LP01/0



Test station for 1-zone

➔ P.10

LP02/0



Test station for 4-zone

➔ P.10

Conventional Detectors

PK2B-DP-006

SMOKE



- Dual optical smoke detector
- Reduces false alarms caused by non-combustion products
- 360°OMNIVIEW LED indicator for visible indication of operation
- Remote testing function available by MTT
- Automatic sensitivity compensation
- Power consumption 40µA (Standby), L-C: 65 mA / P-C: 50 mA (Alarm)
- 1 open-collector output equipped
- Compatible with Nittan B3-J, 3T and EVA-UB4 bases

2KAD3-P

SMOKE



- Optical smoke detector
- Reduces false alarms caused by non-combustion products
- 360°OMNIVIEW LED indicator for visible indication of operation
- Remote testing function available by MTT
- Automatic sensitivity compensation
- Power consumption 40µA (Standby), L-C: 65 mA / P-C: 50 mA (Alarm)
- 1 open-collector output equipped
- Compatible with Nittan B3-J, 3T and EVA-UB4 bases

PS2B-PH-014

HEAT ROR



- Rate-of-rise heat detector
- 360°OMNIVIEW LED indicator for visible indication of operation
- Remote testing function available by MTT
- Power consumption 40µA (Standby), L-C: 65 mA / P-C: 50 mA (Alarm)
- 1 open-collector output equipped
- Compatible with Nittan B3-J, 3T and EVA-UB4 bases

2KH2-LS

SMOKE



- Optical type smoke detector
- Low profile designing for visual concealment
- Effective screen for insects and dust particles
- Effective smoke inflow characteristics
- Wind and atmosphere variations have no influence
- No polarity allows simple wiring connection
- Wide working voltage of DC14.5V - 30V is designed to suit most panels
- Power consumption less than 24µA (Standby), 65mA (Alarm)
- Compatible with Nittan B3-J, 3T and EVA-UB4 bases
- LS type equipped with function of head removal notification

CKLD-KPT2

BEAM



- Beam type smoke detector
- Wide range of monitoring distances 5m-100m
- Effective for open air space such as atria and exhibition sites etc.
- Reduce false alarms caused by transient or local smoke such as cigarette
- Sensitive against smoke spread around a wide area compared to ordinary point type smoke detectors
- Drift compensation function
- Not susceptible to light noise
- Power consumption 760µA (Standby)
- Compatible with LP04 and LP05 remote station
- Periodical automatic test available by 1PS1 dedicated fire alarm control panel

LP04, LP05



- Remote station for beam type smoke detector
- Allowing functional testing of a high level mounted beam detector to be carried out
- Operational test
- Signal monitoring
- Maintenance friendly operation
- Fault/Trouble signal (given an 50% of primary level)
- Number of units per zone LP04: 3 units, LP05: 1 unit

2SC-LS, 2SC1-L

HEAT ROR



- Rate-of-rise heat detector
- High quality components are fitted for greater reliability
- Indication lamp lights when the detector is activated
- The sensing chamber is electrically insulated
- Self-resetting and requires no replacement of internal elements - reduces maintenance costs
- Power consumption 0A (Standby)
- Compatible with Nittan B3-J and 3T bases
- LS type equipped with function of head removal notification

1CC2-70-LW

HEAT 70°C, WATERPROOF



- Fixed temperature heat detector, 70°C, water-proof
- Mechanical operating heat sensor - for reliability
- Response indicator lights up to show which detector has activated
- Easy installation and wiring connection - reduces installation costs
- Connections are non-polarised - reduces wiring mistakes
- Wide working voltage available to suit most control panels
- Self-resetting and requires no replacement of internal elements - reduces maintenance costs
- Power consumption 0A (Standby)

1CD-70-LS, 1CD-70-L

HEAT 70°C



- Fixed temperature heat detector, 70°C
- Mechanical operating heat sensor - for reliability
- Response indicator lights up to show which detector has activated
- Easy installation and wiring connection - reduces installation costs
- Connections are non-polarized - reduces wiring mistakes
- Wide working voltage available to suit most control panels
- Self-resetting and requires no replacement of internal elements - reduces maintenance costs
- Power consumption 0A (Standby)
- Compatible with Nittan B3-J, 3T and EVA-UB4 bases
- LS type equipped with function of head removal notification

KRG-1D

SMOKE, BATTERY TYPE



- Stand alone type optical smoke detector for using in residence
- Automatic sensitivity compensation function
- Powerful sweep alarm sound
- User friendly design for easy operation
- Powered for 10 years by a long life battery

CRG-1D

HEAT, BATTERY TYPE



- Stand alone type heat detector for using in residence
- Fixed temperature, 65°C
- Powerful sweep alarm sound
- User friendly design for easy operation
- Powered for 10 years by a long life battery

PR2B-P-009

IR FLAME



- IR flame detector
- Dual IR sensing method reducing false alarms
- Low profile, compact size
- 25 to 35m long detection distance
- Max 100° wide detection angle
- The operation indicator flickers to indicate the detector circuit trouble
- Flexible installation to ceiling or wall with an adjustable mounting brackets
- Compatible with Nittan B3-J, 3T and EVA-UB4 bases
- Power consumption 110 µA (Standby), 65 mA (Alarm)

DRD1-W

IR FLAME, IP67



- IR flame detector, drip-dust proof (IP67), with remote test function
- Triple waveband IR sensing method reducing false alarms
- Max 100° wide detection angle
- Max 60m detection distance with 33cm x 33cm fire tray
- 360°OMNIVIEW LED indicates the conditions by four colors (Alarm, Trouble, Startup, Testing)
- Selectable Response time and Self-Test cycle
- Current consumption approx. 6 mA (Standby), 50 mA (Alarm)
- Equipped with an angle adjustable bracket

1RB1-EW

IR FLAME, EX-PROOF



- IR flame detector, explosion-proof/drip-dust proof (IP67), with remote test function
- Dual IR sensing method reducing unwanted false alarms
- Max 120° wide detection angle
- Max 55m detection distance with 33cm x 33cm fire tray
- The operation indicator flickers to indicate the detector circuit trouble
- Flexible installation to ceiling or wall with an adjustable mounting brackets
- Ex-proof class : Exd II CT6

FFH-2E

HEAT, EX-PROOF



- Fixed temperature heat detector, explosion-proof type
- Operating temperature range: 60°C, 70°C, 80°C, 90°C, 100°C, 120°C, 150°C
- Contact capacity DC30V, 100mA
- Ex-proof class : d2G4

FLS-02E

SMOKE, EX-PROOF



- Explosion-proof smoke detector
- Rating: DC24V
- Power consumption 60µA (Standby), 60mA (Alarm)
- Ex-proof class : Exd II BT6

KP-35D

GAS



- Gas sensor
- Catalytic combustion type
- Detecting gas: LP gas (heavier than air)
- Alarm sensitivity: less than 1/4 the lower explosion limit (LEL)
- Alarm indication: Red LED indicates instantly, Buzzer rings instantly (automatic reset type)
- Power supply: DC24V

OKB3

SMOKE



- Advanced, premium smoke detector, machinery built-in type
- Scattering light detection
- Very small - W 40 x H 45 x D 40mm
- High degree of protection against unwanted false alarms
- Extremely reliable fire detection
- Use with CPC-3 control unit

CPC-3



- Control unit for OKB3 detector
- Compact unit W110 x H40 x D195 mm

Annunciator

PSH-nL



- Conventional annunciator
- Upon receiving the alarm signal, corresponding zone indicator will illuminate with buzzer sound
- Zone number 5L-100L wall mounting type
- Power supply DC24V
- Compatible panel: 1PE/PF/PK/PM/PN/PQ/PS series
- Equipped with silence switch and telephone jack

Surge Protection

LSP-1, LSP-2



- Surge protection device for conventional zone circuit
- Protect detector lines from lightning surge
- LSP-1 for 5-zone, LSP-2 for 14-zone

Detector Bases

3T



- Detector base for PK2B-DP-006, 2KAD3-P, PS2B-PH-014, 2KH2-LS, 2SC-LS, 2SC1-L, 1CD-70-LS, 1CD-70-L, PR2B-P-009, etc.

Manual Alarm Station

1MF1A



- Conventional manual alarm station with telephone jack
- Stylish, lightweight, strongly built
- Easy installation and maintenance
- Latching action when operated
- Reset button provided for easy rest
- Integral response indicator
- Contact capacity: DC30V 250mA
- Compatible telephone handset; PTL-1

2ME1A



- Conventional manual alarm station
- Stylish, lightweight, strongly built
- Easy installation and maintenance
- Latching action when operated
- Reset button provided for easy rest
- Contact capacity: DC30V 250mA

1MM1W-PL



- Conventional manual alarm station with Indicator
- Stylish flat surface design, lightweight
- Japanese label model
- Latching action when operated
- Reset button provided for easy rest
- Integral response indicator
- Contact capacity: DC30V 250mA
- Power rating for indicator: 24V AC/DC, 12mA
- Compatible telephone handset; PTL-1

Telephone Handset

PTL-1



- Telephone handset
- Compatible fire alarm control panel; 1PM3, 1PV0, etc.
- Compatible manual alarm station; 1MF1A, 1MM1W-PL, etc.

Local Alarm Bell

BD-6-24-11



- Conventional local alarm bell
- 150mm (6")
- Rating: DC24V 10mA
- Sound pressure level: more than 90dB/m

Indication Lamp

PL-R4-LED, PL-R4-W-LED, PL-30R4



- PL-R4-LED, PL-R4-W-LED
- Lamp: LED
- Rating: AC/DC 24V, 8.5mA
- PL-R4-W-LED: weather-proof model

- PL-30R4
- Lamp: Bulb
- Rating: DC30V, 66.7mA

PL-F



- Flat LED indication lamp
- 3mm thickness in recessed mounting
- Lamp: LED
- Rating: AC/DC 24V, 8mA

Local Combination Box

SU-01M6L-47SDB



- Local combination box, vertical and recessed mounting type
- Bell: BD-6-24-11
- Indication lamp: PL-R4-LED
- Manual alarm station: 1MF1A
- Plate: SU-01M6L-47SDB-01, Box: SU-445-03
- 475mm length box (47 type)

SRT-01M6L-47SGB



- Local combination box, vertical and surface mounting type
- Bell: BD-6-24-11
- Indication lamp: PL-R4-LED
- Manual alarm station: 1MF1A
- Plate: SUT-01M6L-47SGB-01, Box: SU-445-03
- 475mm length box (47 type)

SUT-1MB-40-01



- New local combination box set-plate
- Stylish flat surface design
- Equipped with a bell (BD-6-24-11) and manual station (1MM1W-PL)
- Compatible box and terminal
- Box: 410mm length box (40 type)
 - SR-410A-06 (surface mounting type)
 - SU-370A-03 (recessed mounting type)
- Terminal unit: T40-001N

Remote Tester

MTT



- Remote tester for compatible NITTAN conventional detectors, PK2B-DP-006, 2KAD3-P, PS2B-PH-014, etc.
- Improve the maintenance efficiently
- Sensitivity and contamination check for compatible smoke detectors
- lightweight and portable

LP01/0



- Remote test station for compatible NITTAN conventional detectors, PK2B-DP-006, 2KAD3-P, PS2B-PH-014, etc.
- 1 zone, drip-proof model
- Testing available with MTT

LP01/1, LP02/0



- Remote test station for compatible NITTAN conventional detectors, PK2B-DP-006, 2KAD3-P, PS2B-PH-014, etc.
- LP01/1 : 1 zone, standard model
- LP02/0 : 4 zones, standard model
- Testing available with MTT

Local Combination Box Nomenclature

Ordering code is designed to help in selection of correct unit.

1	2	3	4		5	6	7		8	9		10
S	R	T	W	-	01M	6	L	-	47S	F	-	01

Please select codes from "47 type" for the 475mm model box, and from "40 type" for the 410mm model box respectively in the table below.

No	Codes	Description	47 type	40 type
1	S	Combination Box	<input type="radio"/>	<input type="radio"/>
2	R	Surface Mount	<input type="radio"/>	<input type="radio"/>
	U	Recessed Mount	<input type="radio"/>	<input type="radio"/>
3	T	Vertical Mount	<input type="radio"/>	<input type="radio"/>
	Blank	Horizontal Mount	<input type="radio"/>	<input type="radio"/>
4	W	Weather Proof	<input type="radio"/>	<input type="radio"/>
	Blank	Normal	<input type="radio"/>	<input type="radio"/>
5	01M/02M	Class 1 or 2 manual alarm station	<input type="radio"/>	<input type="radio"/>
	1M/RM	Class 1 or R type manual alarm station	<input type="radio"/>	<input type="radio"/>
6	6	6 inch (150mm) bell	<input type="radio"/>	<input type="radio"/>
	B	Bell (BD-6-24-11)	<input type="radio"/>	<input type="radio"/>
	DB	Bell with diode (BD-6-24-15D)	<input type="radio"/>	<input type="radio"/>
7	L	Indication lamp	<input type="radio"/>	<input type="radio"/>
	Blank	No indication lamp	<input type="radio"/>	<input type="radio"/>
8	47S	Plate length 475mm	<input type="radio"/>	<input type="radio"/>
	31S	Plate length 310mm	<input type="radio"/>	<input type="radio"/>
	40	Plate length 410mm	<input type="radio"/>	<input type="radio"/>
9	A-ZZ	Product Version	<input type="radio"/>	<input type="radio"/>
	Blank	For new combined box set-plate only	<input type="radio"/>	<input type="radio"/>
10	01	Set Plate c/w devices only	<input type="radio"/>	<input type="radio"/>
	03	Recessed Mount Box	<input type="radio"/>	<input type="radio"/>
	05	Front Plate w/o devices	<input type="radio"/>	<input type="radio"/>
	06	Surface Mount Box	<input type="radio"/>	<input type="radio"/>
	Blank	Finished Combination Box	<input type="radio"/>	<input type="radio"/>

※ The JP products in this catalogue are equivalent to the products approved with the Japanese standards.

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Nittan implements detailed sales activities and support activities for customers in response to each individual fire prevention issue, with the establishment of 45 branch offices and service centers as well as more than 120 distributors throughout Japan.

Overseas, global coverage encompasses Europe to Africa and the Middle East to Southeast Asia, with a local subsidiary established in the United Kingdom in 1972.

The Nittan brand provides security to sites using state of the art fire prevention technologies.

Distributor

