

# 71501

## ZP3 Series - ZP3-4L 4 Loop Analogue Control Panel - English

### Recognise Real Fires Sooner

Advanced panel design combined with high sensitivity smoke and fire sensing enables the ZP3 control panel not only to identify and disregard conditions that would result in false or unwanted alarms, but to recognise real fires sooner. The ZP3 is available in 2 and 4 loop configurations, accommodating up to 508 sensing addresses. For sites requiring more loops, panels may be networked together to form systems capable of controlling more than 30 000 devices from as much as 64 control panels.

### Unique Device Addresses

Up to 127 line devices (detectors, call points, sounders or interface units) may be connected to each of the ZP3 loops. All loop devices incorporate switch settings enabling them to be assigned a unique address, the location of which is pinpointed and polled by the panel every two seconds. Variations in the detector's environment caused by increases of temperature or products of combustion are reported to the panel where they are processed and compared to known fire data prior to any alarm output being activated.

### Software Flexibility

Constant communication between control panel and detector enables the ZP3 to provide a wide range of user facilities including pre alarm, constant sensitivity adjustment, service and near service listings for all detector types. Software flexibility enables facilities such as alarm organisation, evacuation procedures and complex cause and effect requirements to be easily programmed into any system. All customer and site data is held in non volatile flash memory, ensuring both ease of initial system data input and subsequent on site amendments and modifications should they be required.

### Optional Facilities

An onboard printer module together with a series of facility boards can be added to the standard panel to extend any panel up to 768 programmable inputs and outputs.

### Remote Diagnostics

Designed to provide the user with full facilities for both fault diagnosis and system configuration off site, the remote diagnostics hardware and software package makes information available to service personnel prior to visiting site for remedial action or maintenance activity.



### Details

- CPR Certified to EN54:2 and 4
- Advanced sensing techniques
- Extensive networking ability
- Loop powered sounders support
- Ease of operation
- Service and near service facility
- Sophisticated alarm verification
- Automatic self test
- Day / night control
- Radio loop interface support
- Automatic contamination adjustment for each detector
- Intelligent loop isolation
- Self test sounder support
- Password protection
- Event log

# 71501

## ZP3 Series - ZP3-4L 4 Loop Analogue Control Panel - English

### Technical specifications

#### General

Communication ports	Z-Port 1 Planner, RS232 Z-Port 2 Network, RS485 / fibre optic
Maximum system capacity (device count)	up to 130K
Network size (nodes)	up to 256

#### Electrical

Power Supply Input	230 VAC 50 Hz $\pm 10\%$ , 0.75 Amps or 24-50 VDC
Output (nominal)	24 VDC (nominal), 3.0 A
Battery charger	28.2 VDC, 1.2 A

#### Loop

Maximum loop capacity	4
Cable rating	2 core screened (to local codes and standards)
Loop monitoring	Open/short circuit, earth fault, device removal, wrong device type

#### Zone

Maximum zone capacity	up to 508
Loop Capacity	127 addresses

#### Standby battery

Capacity	up to 28
Batteries supported in housing	2 x 12 V SLA

#### Physical

Form factor	Medium
Physical dimensions	540 x 410 x 137 mm (W x H x D)
Shipping weight	11 kg
Colour	Cool grey
Mounting type	Recessed mount, Surface mount
Material	Sheet steel

#### Environmental

Operating temperature	-5° to +40°C
Relative humidity	10 to 90% noncondensing
IP rating	IP30: for indoor use only

#### Power requirements

Quiescent (4 loops with 0 devices)	420mA @ 24 VDC
Alarm (4 loops with 25% zones in alarm)	820mA @ 24 VDC

#### Switched outputs (standard)

Sounder circuits	2 x dual (monitored & programmable)
Fire (common)	1 x volt free N/O or N/C
Fault (common)	1 x volt free N/O or N/C
Remote manned centre (fire)	1 x monitored
Remote manned centre (fault)	1 x monitored

#### Switched I/O (optional & programmable)

Non loop devices	768 max, consisting of sounder circuits, relay outputs, transistor outputs, monitoring inputs
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#### Stem status indicators

LEDs	87 LEDs, text display 4 line, 160 character, LCD (back lit)
LCD (back lit)	4 line, 160 character

#### Selectable features

	Common sounders, coincidence alarm, RMC fire & fault, zone walk test, control output, output delays, alarm counter, sounder silence delay, alarm verification
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As a company of innovation, UTC Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit UTC Fire & Security online or contact your sales representative.

Last updated on 2 June 2020 - 18:37





PSB Singapore

# CERTIFICATE OF CONFORMITY

**No. CLS1B 080462 0006 Rev. 01**

Initial No. CLS1B 13 12 80462 002

**Certificate Holder:**

**Acclaim Systems Pte Ltd**  
171 Kaki Bukit Avenue 1  
Shun Li Industrial Park  
SINGAPORE 416020  
SINGAPORE

UEN - 199202237G

**Certification Mark:**



**Product:**

Fire Alarm Panels

**Brand Name:**

ZITON

**Model(s):**

ZP3

**Product Details:**

1 to 4 Loops Analogue Addressable Fire Alarm Panel

**Standard(s):**

BS EN 54-2:1997/A1:2006  
BS EN 54-4:1998/A2:2006  
SS 645:2019 (cl 5.2, 5.3 & 5.5)

**Country of Origin:**

Poland

**Test Report(s):**

719185887-EEC10/01-TWY, 719185887-EEC10/02-TWY,  
7191120716-EEC15/YKF & 7191243654-EEC20/YKF\_CR1

**Valid until:**

2023-10-27

Products listed under Class 1B must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Page 1 of 1

**Issued on:** 2021-02-22

Vice-President (Certification Department)  
TÜV SÜD PSB



This Certificate is the property of TÜV SÜD PSB Pte Ltd. Reports listed in this certificate is an integral part of the certificate and should be read in conjunction with it. The use of this Certificate is subjected to TÜV SÜD Group Testing and Certification Regulations; TÜV SÜD PSB Pte Ltd (PSB) General Terms and Conditions of Business and PSB Product Listing Scheme (PLS) Application Fact Sheet. The manufacturer is solely responsible for compliance of any product that has the same designation as the product type-tested. Persons relying on this Certificate should verify its validity by checking the e-directory: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert). For more information on TÜV SÜD PSB Pte Ltd product certification: [www.tuv-sud-psb.sg](http://www.tuv-sud-psb.sg)



**Notified body No. 1134**  
asbl ANPI vzw  
Parc Scientifique Fleming - Granbonpré 1  
B-1348 Louvain-la-Neuve

## **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

**1134 - CPR – 089**

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the products Construction Products Regulation or CPR), this certificate applies to the construction product:

### **Control and Indicating Equipment**

#### **ZITON ZP3-series** Analogue

With integrated Power Supply Equipment ZP3-MB2C-230V-xl

and the variants: see annex 1 & 2 of the EC certificate of constancy of performance  
with the performances listed in annex 3, 4 & 5 of the EC certificate of constancy of performance and  
intended use: Fire safety

**manufactured by:**

**UTC Fire & Security B.V.**  
Kelvinstraat, 7  
NL – 6003 DH WEERT  
THE NETHERLANDS

**and produced in the manufacturing plant(s):**

**UTC CCS Manufacturing Polska Sp. Z o.o.**  
Ul. Kolejowa 24  
39-100 Ropczyce  
POLAND

This certificate attests that all provisions concerning the assessment and the verification of constancy performance at system 1 being certified and the performances described in Annex ZA of the standard(s):

**EN 54-2:1997/AC:1999/A1:2006**

**EN 54-4:1997/AC:1999/A1:2002/A2:2006**

are applied and that

**the product fulfils to all here above mentioned and prescribed requirements.**

This certificate was first issued on **2014-06-13** and remains valid as a long time as the testing methods and/or for the control of the production in factory included in the harmonized standard, used to evaluate the performances of the declared characteristics, do not change and as neither the product, nor the manufacturing conditions in the plant or the factory production control itself are not modified significantly.

**Brussels, the 13<sup>th</sup> of June 2014**

  
**Michèle VANDENDOREN**  
**Secretary General**



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## **Annex 1 to CERTIFICATE CONSTANCY OF PERFORMANCE**

**1134 - CPR – 089**

The Control and Indicating Equipment ZITON ZP3-series includes also the following variants :

<b>ZP3 Product Description</b>	<b>Brand &amp; pocket label (order code)</b>	<b>Fascia Language</b>	<b>Box Color</b>	<b>Addr lines</b>	<b>Day /Night LED</b>
ZP3-1L 1 Loop	ZITON (71301)	English	Grey	1	Green
ZP3-2L 2 Loop	ZITON (71401)	English	Grey	2	Green
ZP3-4L 4 Loop	ZITON (71501)	English	Grey	4	Green
ZP3-1L 1 Loop	ZITON (71303)	Spanish	Grey	1	Green
ZP3-2L 2 Loop	ZITON (71403)	Spanish	Grey	2	Green
ZP3-4L 4 Loop	ZITON (71503)	Spanish	Grey	4	Green
ZP3-1L 1 Loop	ZITON (71305)	English	Red	1	Green
ZP3-2L 2 Loop	ZITON (71405)	English	Red	2	Green
ZP3-4L 4 Loop	ZITON (71505)	English	Red	4	Green
ZP3-1L 1 Loop - E63 009 00	ZITON (71308)	Scandinavian	Grey	1	Green
ZP3-2L 2 Loop - E63 009 02	ZITON (71408)	Scandinavian	Grey	2	Green
ZP3-4L 4 Loop - E63 009 04	ZITON (71508)	Scandinavian	Grey	4	Green
ZP3-1L 1 Loop	PLANA FABREGA (71310)	Spanish	Grey	1	Green
ZP3-2L 2 Loop	PLANA FABREGA (71410)	Spanish	Grey	2	Green
ZP3-4L 4 Loop	PLANA FABREGA (71510)	Spanish	Grey	4	Green
PAI2001 1 Loop	PHOTAIN (71312)	English	Grey	1	Green
PAI2002 2 Loop	PHOTAIN (71412)	English	Grey	2	Green
PAI2004 4 Loop	PHOTAIN (71512)	English	Grey	4	Green
ZP3-1L 1 Loop	ZITON (71315)	Portuguese	Grey	1	Green
ZP3-2L 2 Loop	ZITON (71415)	Portuguese	Grey	2	Green
ZP3-4L 4 Loop	ZITON (71515)	Portuguese	Grey	4	Green
ZP3-1L 1 Loop	FABRICOM/(FIDENI MKIII) (71316)	Flemish/French	Grey	1	Blue
ZP3-2L 2 Loop	FABRICOM/(FIDENI MKIII) (71416)	Flemish/French	Grey	2	Blue
ZP3-4L 4 Loop	FABRICOM/(FIDENI MKIII) (71516)	Flemish/French	Grey	4	Blue
ZP3 Lite 1 Loop	ZITON (71321)	English	Grey	1	Green
ZP3 Lite 1 Loop	ZITON (71323)	Spanish	Grey	1	Green

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## **Annex 2 to CERTIFICATE CONSTANCY OF PERFORMANCE**

**1134 - CPR – 089**

The Control and Indicating Equipment ZITON ZP3-series includes also the following accessories:

ZP3-MB2-230V-xL Main Board Assembly  
ZP3-MCB2C-230-1L 1L Board & Chassis (order code 80801)  
ZP3-MCB2C-230-2L 2L Board & Chassis (order code 80802)  
ZP3-MCB2C-230-4L 4L Board & Chassis (order code 80803)  
ZP3FBR-CPU Central Processor Board (order code 63802)  
ZP3-ZB50 50 Zone LED Board (order code 63701)  
ZP3-CB1 Communications Board (order code 49901)  
ZP3-DB1 Display Board (order code 63601)  
ZP3AB-SCB-D Serial control bus driver board (order code 48202)  
ZP3AB-NET1 Network board optional facility card (order code 48501)  
ZP3AB-MIP8 Eight way monitored input board (order code 48901)  
ZP3AB-OP24 Transistor output board - 24 way programmable open collector (order code 69902)  
ZP3AB-MA8 Eight way programmable sounder driver output board (order code 48701)  
ZP3AB-RL8 Eight way programmable relay output board (order code 48801)  
ZP3-PR1 Optional printer kit with Printer (ZP3AB-PRPCB) (order code 67702)  
ZP3AB-RS232 (Ref. 48601) Communications Board RS232  
ZP3AB-NLM3 Class-A Network Loop Module

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## **Annex 3 to CERTIFICATE CONSTANCY OF PERFORMANCE**

**1134 - CPR - 089**

<b>Harmonised technical specification</b>	<b>EN 54-2:1997 + A1:2006</b>	
<b>Essential Characteristics</b>	<b>Performance <sup>1) 2) 3)</sup></b>	<b>Clause</b>
<b>Performance under fire conditions</b> <ul style="list-style-type: none"><li>- General requirements</li><li>- General requirements for indications</li><li>- The fire alarm condition</li></ul>	pass pass pass	4 5 7
<b>Response delay (response time to fire)</b> <ul style="list-style-type: none"><li>- Reception and processing of fire signals</li><li>- Output of the fire alarm condition</li><li>- Delay to outputs</li><li>- Dependencies on more than one alarm signal</li></ul>	pass pass pass pass	7.1 7.7 7.11 7.12
<b>Operational reliability</b> <ul style="list-style-type: none"><li>- General requirements</li><li>- General requirements for indications</li><li>- The quiescent condition</li><li>- The fire alarm condition</li><li>- Fault warning condition</li><li>- Disabled condition</li><li>- Test condition</li><li>- Standardized input/output interface</li><li>- Design requirements</li><li>- Additional design requirements for software controlled control and indicating equipments</li><li>- Marking</li></ul>	pass pass pass pass pass pass pass pass pass pass pass	4 5 6 7 8 9 10 11 12 13 14
<b>Durability of operational reliability, temperature resistance</b> <ul style="list-style-type: none"><li>- Cold (operational)</li></ul>	pass	15.4
<b>Durability of operational reliability, vibration resistance</b> <ul style="list-style-type: none"><li>- Impact (operational)</li><li>- Vibration, sinusoidal (operational)</li><li>- Vibration, sinusoidal (endurance)</li></ul>	pass pass pass	15.6 15.7 15.15
<b>Durability of operational reliability, electrical stability</b> <ul style="list-style-type: none"><li>- Electromagnetic compatibility (EMC), immunity tests (operational)</li><li>- Supply voltage variations</li></ul>	pass pass	15.8 15.13
<b>Durability of operational reliability, humidity resistance</b> <ul style="list-style-type: none"><li>- Damp heat, steady state (operational)</li><li>- Damp heat, steady state (endurance)</li></ul>	pass pass	15.5 15.14
<sup>1)</sup> "NPD" theoretically possible; except for durability of characteristics with declared performance <sup>2)</sup> "NA" not applicable for components to which the requirement does not apply <sup>3)</sup> The list of options with requirements is listed in the Certificate of constancy of performance separately from the table of performance		

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## **Annex 4 to CERTIFICATE CONSTANCY OF PERFORMANCE**

**1134 - CPR - 089**

<b>Harmonised technical specification</b>	<b>EN 54-4:1997 + A1:2002 + A2:2006</b>	
<b>Essential Characteristics</b>	<b>Performance <sup>1) 2)</sup></b>	<b>Clause</b>
<i>Performance of power supply</i>		
- General requirements	pass	4
- Functions	pass	5
- Materials, design and manufacture	pass	6
<i>Operational reliability</i>		
- General requirements	pass	4
- Functions	pass	5
- Materials, design and manufacture	pass	6
- Documentation	pass	7
- Marking	pass	8
<i>Durability of operational reliability, temperature resistance</i>		
- Cold (operational)	pass	9.5
<i>Durability of operational reliability, vibration resistance</i>		
- Impact (operational)	pass	9.7
- Vibration, sinusoidal (operational)	pass	9.8
- Vibration, sinusoidal (endurance)	pass	9.15
<i>Durability of operational reliability, electrical stability</i>		
- Electromagnetic compatibility (EMC), immunity tests (operational)	pass	9.9
<i>Durability of operational reliability, humidity resistance</i>		
- Damp heat, steady state (operational)	pass	9.6
- Damp heat, steady state (endurance)	pass	9.14
<sup>1)</sup> "NPD" theoretically possible; except for durability of characteristics with declared performance		
<sup>2)</sup> "NA" not applicable for components to which the requirement does not apply		

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## **Annex 5 to CERTIFICATE CONSTANCY OF PERFORMANCE**

**1134 - CPR – 089**

The Control and Indicating Equipment ZITON ZP3-series includes also the following optional functions of the EN 54-2/A1:2006

Options with requirements	
7.8	Output to fire alarm devices (output to C)
7.9.1	Output to fire alarm routing equipment (output to E)
7.11	Delays to outputs
7.12.2	Dependencies on more than one alarm signal (type B)
7.13	Alarm counter
8.3	Fault signals from points
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment (output to J)
9.5	Disabling of addressable points
10.	Test conditions
10.1	General requirements
10.2	Indication of the test condition
10.3	Indication of zones in the test state
11	Standardised Input/output interface

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Company Reg No: 199202237G

## Project References

### ZITON ADDRESSABLE FIRE ALARM SYSTEM SUPPLIED & INSTALLED LOCALLY

\*includes ZP3 Panel, Smoke Detectors, Heat Detectors, Manual Call Point, Kobishi Alarm Bell and System Sensor Strobe Light

S/No.	PROJECT
1	6-Storey Multi-User Research and Development Building with Basement Car Park at Cleantech View/Cleantech Loop
2	Custom Operation Command Complex at Jalan Bahar
3	44 Storey Residential Flats at Alexandra View (The Artra)
4	Building at 207 Balestier Road
5	Multi User Light Development at 25 Harper Road
6	Geylang Neighbourhood Police Centre
7	10 Storey Development at 9 Penang Road (Park Mall)
8	9 Storey Warehouse at Gul Circle (JTC Logistic Hub)
9	Thong Sia at 30 Bideford Road
10	9 Storey Industrial Factory at 164 Kallang Way
11	ST Electronics 4 Storey Factory at 100 Jurong East Street 21
12	3-Storey Single-User Industrial Development on lots 01838L & 01839C mk 07 at no.8 & 10 Tuas Avenue 20 (JTC Space)
13	2-Storey Single-User Warehouse at 2 Fishery Port Road (Cold Hub 1)
14	9 Storey JTC Multi User Industrial Development at Tampines Ave 10 (JTC Space)
15	6-Storey Single-User Warehouse (Cold Storage) Development With Ancillary Office At Jalan Buroh
16	JTC Launchpad at One North Phase II at Ayer Rajah Crescent
17	JTC Food Hub at Senoko Drive
18	Markono Warehouse
19	5 Storey Single Warehouse at 90 Second Lok Yang Road
20	CWT at 47 Jalan Buroh
21	9-Sty Multiple-User Industrial Cum Warehouse Development at Jalan Tukang/ Tukang Innovation Grove
22	Ulu Pandan Bus Depot
23	Spottiswoode Suites at 16 Spottiswoode Park Road
24	Iccave at Corporation Drive
25	The Santorini Condo at Tampines Street 86
26	Condo at 6 Derbyshire Road
27	Mixed Development At Hillview Ave (The Hillier)
28	Amber Skye Condo at 8 Amber Road
29	Lake Life EC at Yuan Ching Road
30	The Glades at Bedok Rise
31	The Corals Condo at Keppel Bay Drive
32	Reflections at Keppel Bay
33	25 Sty Condo at Orchard Boulevard (Westwood)
34	Condo at Bright Hill Drive (Thomson Three)
35	The Skywoods Condo
36	Condominium with facilities at Boon Lay Way/Gateway Drive
37	Condo At Tampines Central 7 (Citylife)
38	D'Nest Condominium at Pasir Ris Grove



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\*includes ZP3 Panel, Smoke Detectors, Heat Detectors, Manual Call Point, Kobishi Alarm Bell and System Sensor Strobe Light

S/No.	PROJECT
39	Onze at Tanjong Pagar
40	Goodwood Grand Condo at 16 Balmoral Road
41	Riversails Condo at Upper Serangoon Crescent
42	Condo at St Patrick
43	The Pinnacle Collection @ Sentosa
44	4 Storey Religious Institute at Upper Bukit Timah
45	4 Storey Commercial Development at 7 to 19 Sam Leong Road
46	Service Apartment at 32 Orange Grove Road
47	Bijou Condo at Jalan Mat Jambol
48	30 Storey Mixed development at 371 Beach Road (City Gate)
49	Condominium Development Comprising 8 Blocks Of 5-Storey With Attic Residential Flats (Total:55 Units) At Nassim Hill
50	Condominium Development Comprising Of 6-Blocks Of 7-Storey With Attic (248 Units) At River Valley Road (RV Residence)
51	Scotts Square
52	2 Blocks Of Condominium Development @ 38 & 40 Cairnhill Road (The Laurels)
53	Condominium Development Comprising 7 Blks Of 36-Sty Residential Flats At King's Road / Leedon Height / Farrer Road
54	Condominium Housing Development Of 33 Sty Apartment Building (28 Units) At 24 Angullia Park / Cuscaden Walk (Boulevard Vue)
55	Condominium Housing Development Comprising Of 2 Blks Of 31-Sty Residential Buildings (Total 239 Units) At 97 Meyer Road
56	22 Storey Apartment at Draycott Park
57	Capitol Theatre, Capitol Building & Stamford House At Stamford/North Bridge Road
58	Condo @ 97 Meyer Road - Meyer Rise Condo
59	12-Storey Condominium Housing Development At Bukit Timah Road
60	Condominium Housing @ Dakota Crescent
61	A block of 18-Storey Residential Building At Cairnhill Rise (Alba Condo)
62	1Block Of 36-Storey Residential Flats (54 Units) At Angullia Park
63	2 Storey A&A & Factory Extension at 19, 21 Joo Koon Circle for M/S Yamazaki Mazak Singapore Pte Ltd
64	Condo Housing Development Comprising 2 Blks of 30-Sty & 2 Blks of 29-Sty Residential Apartments and 2 Blks 3-Sty & 1 Blk of 2-Sty Strata Terraces at Whampoa East
65	Space @ Kovan
66	36-Sty Apartment At Thomson Rd / Jalan Toa Payoh (Cube 8)
67	Condominium Housing Development Comprising 8 Blocks of 5-Storey Flats at 214 Dunearn road
68	Residential Apartment Units Comprising of 2 Block Including 2 Basement Carpark at 145 Killiney Road
69	3 Blks Of 4-Storey Seven Palms Sentosa Cove
70	Condominium Housing Development Comprising 2 Blks Of 36-Sty Residential Building (Total 157 Units) At 18 Anderson Road
71	Condominium Housing Development Comprising 7 Blks Of 5 Sty Residential Bldg At 25 Nassim Road
72	1 BLK of 36-Storey Residential Flats (Total 54 Units) @ Ardmore Park (Newton Planning Area)
73	Condominium Housing Development @ 368 Thomson Road
74	Seahill Condo @ West Coast Link
75	Thomson Grand @ Upper Thomson Road
76	Kwong Wai Shiu Hospital at 705 Serangoon Road



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\*includes ZP3 Panel, Smoke Detectors, Heat Detectors, Manual Call Point, Kobishi Alarm Bell and System Sensor Strobe Light

S/No.	PROJECT
77	National University Hospital Singapore at Lower Kent Ridge Road (Central Oral Health)
78	Nee Soon Camp
79	38 Storey Office Building at at 182 Cecil Street (Fraser Tower)
80	Primary School at 24 Cedar Avenue
81	Selangor Park Complex
82	5 Storey Religious Building at Sumang Walk
83	7 Storey Hotel Development at 21 Beach View & 12 Artillery Avenue at Sentosa (Outpost Village Hotel)
84	Tang Plaza at 320 Orchard Road
85	Kampung Admiralty
86	9 Storey Nursing Home at Geylang East Central
87	25 Storey Office Tower at Venture Ave
88	17 Storey Commercial Building at 111 Somerset Road
89	7 Storey Australian International School at Lorong Chuan
90	Singapore Chinese Cultural Centre
91	Multi Storey Vehicle Storage and Support Facilities at Selarang Camp
92	4 Storey Mosque at Woodlands Drive 17
93	Nanyang Girls Boarding School at 2 Linden Drive
94	7 Storey Academic Building at Nanyang Ave (NTU)
95	Clarke Quay
96	Office Spare And Common Facilities Of Monetary Of Singapore Building At 10 Shenton Way
97	Nanyang Crescent NTU
98	6 Blocks of 16 Storey Residential Flats (Lakeville)
99	Warehouse At Greenwich Drive (DHL)
100	Westgate
101	SAFRA Punggol Club At Sentul Crescent
102	Lee Kong Chian - CSB (NOVENA)
103	OUE Downtown Tower 1 & 2
104	Primary School at Punggol Drive & Punggol East near Kadaloor LRT Station
105	4sty with 3-Mezzanine Trent XWB Facility Building (Phase 2) at Calshot Road
106	Lee Kong Chian - EMB (Yunnan)
107	Foreign System School at Jalan Ulu Sembawang (MMS)
108	Blk 504A and Blk 506A at Kranji Camp
109	Flat Development Comprising 8 Blocks of Building (702 units) at Bartley Road/Lorong How Sun (Bartley Residence)
110	SUTD Upper Changi District - Robotic Lab, Material Processing Lab and Bio Analytical Lab
111	Intra-Island Cableway At Sentosa (Southern Islands)
112	4 Blks of 5 Sty Residential Bldg (298 Units) & 39 Units of 2 Sty Strata Terrace @ Woodgrove Ave (Woodhaven)
113	8 storey Learning Hub Technological University (NTU) at Nanyang Avenue
114	10 Sty BCA Academy @ Braddell Road



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Company Reg No: 199202237G

## Project References

### ZITON ADDRESSABLE FIRE ALARM SYSTEM SUPPLIED & INSTALLED LOCALLY

\*includes ZP3 Panel, Smoke Detectors, Heat Detectors, Manual Call Point, Kobishi Alarm Bell and System Sensor Strobe Light

S/No.	PROJECT
115	Singapore Polytechnic Campus Expansion Comprising of 1 Block of 6-Storey SIT Building and 1 Block of 4-Storey Student Sport Hub at Dover Road
116	A&A to Existing Office Podium of DBS Building at 6 Shenton Way
117	5 Storey Apartment (47 Units) at Upper Paya Lebar Road/Lorong Ah Soo (Hougang Planning Area)
118	Office Podium of DBS Building @ 6 Shenton Way
119	Factory With Ancillary Office And Workers Dormitory At Kaki Bukit Road 4
120	4 Sty Multi-User General Industrial Development at Kaki Bukit Ave 6
121	Executive Condo Housing Development (Total:504 Units) At Punggol Drive/Punggol East
122	Stamford American School (Phase 2)
123	32-Storey Shopping/Office Development At 138 Robinson Road/Mccallum Street
124	Lakefront Condo (Total 629 Units) @ Lakeside Drive
125	2 Blks Of 7-Sty and 4 Blks Of 6-Sty Student Hostel At Nanyang Crescent (NTU)
126	20 Storey Office Development at 144 Robinson Road
127	6-Storey Building And A&A To The Existing Educational Institute For Insead At 1 Ayer Rajah Ave
128	Yishun International School (GWA) @ Yishun Ave 6 Project
129	Ngee Ann Poly (SIT)
130	1 Block of 35 Storeys and 1 Block of 36 Storeys Condominium Flats at St Thomas Walk
131	27-Storey Commercial Development Comprising of Hotel Units, Office Units and Other Ancillary Facilities at Peck Seah Street
132	Singapore Building at 10 Shenton (MAS Building)
133	Proposed Erection 1 Block 3 Storey Ancillary Office Cum Carpark at 15 Benoi Road
134	9 Storey Multiple User Light Industrial Development(Total:293 Factory Units)with a 7 Storey Car Park/Sub Station and a Temporary Staff Canteen At Gambas Ave.
135	2 Blk of 19-Sty Condominium Flat Development (Total 89 Units) at Lengkok Angsa/Paterson Road
136	6-Storey Single User Warehouse Development At Toh Guan Road East 5c
137	5 Storey User Light Development With car Park At Tai Seng Ave (Print Media Hub)
138	Selarang Camp-Guard House
139	Construction of Training Facilities at Pasir Ris
140	Part 13/Part 16-Storey Residential Flat Development (76 Units) With 2 Basement Carpark, Sky Terrances And Communal Facilities At 25 Amber Road
141	A & A Works To Existing Warehouse Floors Of Existing 3 Storey Warehouse At No.5 Toh Guan Road East
142	SIM Phase 2 at 461 Clementi Road
143	Multiple Industrial Development At Kaki Bukit Road 4
144	A&A Works To Existing Basement 1 To 5th Storey At Podium Of Tower 1 At One Raffles Place
145	New Erection Of a 7-Storey Research And Development Building At Changi Business Park Central 1