





Analog addressable fire alarm system GS690 UL 864 approval

Solution for small and medium-sized buildings



3D monitor system integration available!

- 32 bit processor Arm Cortex M3
- High/Low voltage separately protection circuit for safety
- Pluggable Loop PCB board available
- Networking up to 64 panels
- AC type detector integration available by I/O module GS621
- Loop Options: 1 loop; 1 loop expanded to 2-loops; 2-loops
- High contrast backlit LCD provides 4 rows of 40 characters for device and system status
- 4 Access Levels & 4000 events history log
- Day/night mode configurable
- Up to 127 addressable devices per loop & 40 configurable zones
- Automatic device type-code verification













Analog Fire Alarm Control Panel



GS690



Optional Power supply Max.Support 32 horn strobes in one loop

- Power: Input: AC(100 ~ 240)V/ 50/60Hz
- Emergency power supply: 12Ah @ 24V (2 x DC 12V)
- Battery fault voltage: ≤ DC 20V
- Standby current: 100mA @ DC 20 ~ 28V
- Loop current: 200mA
- Relay output: 3 x (1.0 A @ DC 30V /1A @AC 240V)
- Humidity range: 0%- 95%
- Temperature range: 0 °C ~ +49 °C
- Support Ethernet, RS485 interface, USB, PC software
- Transmission distance up to 3KM, stable and reliable

FIRE ALARM CONTROL PANEL SPECIFICATIONS







Product parameter

Product Name	Addressable Fire Alarm Control Panel	Product number	GS690
Certificate	UL	Standard	UL864
Power Supply			
Operating voltage	AC(110~220)V,50/60Hz	Mains supply Current Limit	2.1A
Mains supply fuse	4A/AC 250V slow blow(20mm)	Power supply	3.5A@28.5V
Standby battery maximum capacity (2xDC 12V)	12Ah	Maximum battery current draw	1.2A@maximum operating temperature
Charging Circuit	28V,±2% Nominal	Battery fuse	1A resettable(electronic fuse)
Battery fault threshold voltage	< DC 20V	Quiescent current	100mA @ DC28.5V
Addressable Loops			
Addressable loops	2	Number of connected devices per loop	127
Loop current(max)	100mA @40ohms(max) @24V DC per loop	Loop monitoring	Open, short-circuit and Ground
Power Limited			
Audio Alarms			
Configurable audio alarm groups(max)	7	Non-addressable audio alarm device driver	220mA (Line Drop: 2.4V) (Total)
Non-addressable audio alarm end-of-line resistor	10ΚΩ	Alarm zone monitoring	Open , Ground, and short-circuit
Power Limited			
Alarm zone voltage(max)	DC 24V	Current Rating for Regulated,mA	22
Current Rating for Special Applications,mA	220	Alarm zone fuse	1A resettable(electronic fuse)
24-Aux Output (Use to power Strobes/Horn	s		
Only)			

Power Limited			
Alarm zone voltage(max)	DC 24V	Current Rating for Regulated,mA	22
Current Rating for Special Applications,mA	A 220	Alarm zone fuse	1A resettable(electronic fuse)
24-Aux Output (Use to power Strobes/Horn	s		
Only)			
Nominal output voltage, Vdc	24	Recorded Voltage range for compatibility, V	17.2-27.7
Maximum circuit output current,A	1.35	Current Rating for Regulated, A	0.135 (max 1 NAC device)
Current Rating for Special Applications,A	1.35 (max 10 NAC devices)	Max line Impedance (ohms)	2 (per loop)
Ancillary Outputs			
Number of programmable output relays	3(Power factor 1)	Ancillary fire C/O relay	2x(1.0A@DC30V)
Ancillary Inputs			
Evacuation start/stop	Non-latching, voltage-free		
Miscellaneous			
Terminal Wiring	28 -14AWG (0.5 ~ +1.6)mm2	Operating temperature	(0 ~ +49)°C
Operating humidity	(0~93)%RH, Non-condensing	Storage temperature	(-25~+80)°C
Storage humidity	(0~98)%RH, Non-condensing	Dimensions(LxWxH)	440mm*354mm*140.5mm
Weight (excluding batteries)	≤9.0kg	Ground Fault Impedance value	0 ohm



GS650



GS670



GS620



GS621

Addressable Heat Detector

- Operating Voltage Range:16~33VDC
- Standby current: < 200uA@24VDC
- Action current: < 6mA
- Sensitivity: 57.2°C-78.9°C(3 levels: 60°C /62°C/65°C)
- Two fire LEDs allows 360° viewing
- Standard: UL521:1999
- Humidity range: < 93%
- Working Temperature range: 0 °C-49 °C
- Two fire LEDs allows 360° viewing
- Size: Φ150*59mm
- Conventional Heat detector is available for option.

Addressable Smoke Detector

- Operating Voltage Range:16~33VDC
- Standby current: < 200uA@24VDC
- Action current: < 6mA
- Sensitivity: 89uA- 94uA
- 3 levels Smoke Sensor Sensitivity (NORMAL/LOW/HIGH)
- Two fire LEDs allows 360° viewing
- Standard: UL268:2009
- Humidity range: < 93%
- Temperature range: 0 °C-49 °C
- Size: Φ150*67mm
- Conventional Smoke detector is available for option.

Addressable Manual Pull Station

- Operating Voltage Range:16~33VDC
- Standby current: < 200uA @24VDC
- Temperature range: 0 °C ~ +49 °C
- Humidity range: 0%-93%(RH)
- Standard: UL38
- Size: 138*104*55mm
- Addressable type

Addressable Input/Output Module

- Operating Voltage Range: 16~33VDC
- Loop current: 200mA
- Relay output: 2A, 30VDC; 0.5A 125VAC
- Temperature range: 0°C ~ +49°C
- Humidity range: 0% 93%(RH)
- Size: 124*124*63mm
- AC type detector integration available by I/O module GS621
- Optional input/output



GS623



GS620-P01/02/03/04

Isolator Module

Isolator Module

• Standby current: ≤0.6mA • Work current: < 30mA

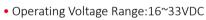
• Operating Voltage Range:16~33VDC

• Relay output: 1A, 30VDA; 1A 240VAC • Temperature range: 0 °C ~ +49 °C • Humidity range: 0%-93%(RH) Size: 124*124*63mm

UL 94V-2: UL(US/ C) 38: UL(US/ C) 464

- Power Type: DC 9 V battery
- Alarm Volume: >95dB@03m/1ft
- Alarm Type: audio & visual
- Indicator: red LED
- Temperature Range :-40-49°C/-40-120°F
- Humidity Range: 15-93% RH(non-condensing) < 93% RH(non-condensing)
- Installation Method: mounting bracket
- Operating Life: 10 years

Addressable Horn Strobe



- Light intensity: 15cd,30cd,75cd,110cd,user selectable
- Sound mode: Intermittent sound, Continuous sound, Optional
- Temperature range: 0 °C ~ +49 °C
- Humidity range: 0% 93% (RH)
- Size: 140*120*50mm
- Low Frequency 520HZ-Waking Effectiveness
- Synchronization
- Ceiling mount pending
- Self-test function



GS622-A

GS626

Alarm Bell

- Operating Voltage Range:16~33VDC
- Standby current: 0 A
- Alarm Current: 25 mA
- Alarm volume: ≥ 95 dB @ 1 m
- Terminal line: (0.4 ~ 2.5) mm2
- Temperature range: 0 °C ~ +65 °C
- Humidity range: 0%-93% (RH)
- Storage temperature:-25 °C ~ +80 °C
- Storage humidity: 0%-98% (RH)
- Size: Φ152*60mm

Certificate Number 20181203-S36001

Report Reference S36001-20181128

Issue Date 2018-DECEMBER-03

Issued to: Siterwell Electronics Co.,Limited

No.666 Qingfeng Road Jiangbei District

Ningbo, Zhejiang 315034 CHINA

This certificate confirms that representative samples of

CONTROL UNITS, SYSTEM; CONTROL UNIT

ACCESSORIES, SYSTEM

Fire Alarm Equipment: Fire Alarm Control Panel, Model

GS690.

Fire Alarm Subassembly: Enclosure, Model GS690-P01, Main Board, Model ST690-V1.1, Loop Board, Model ST690-

LOOP-V1.0.

Fire Alarm Equipment: Input/Output Module, Model GS621;

Isolator Module, Model GS623.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL864, Control Units and Accessories for Fire Alarm

Systems.

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Progra

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20190405-S25300 **Certificate Number** S25300-20190329 Report Reference **Issue Date** 2019-APRIL-05

> Siterwell Electronics Co., Limited Issued to:

> > No.666 Qingfeng Road Jiangbei District

Ningbo

Zhejiang 315034 CHINA

This certificate confirms that representative samples of SMOKE DETECTORS FOR FIRE ALARM SYSTEMS

Smoke Detector for Open Area Application:

Model GS670, sensitivity selectable (NORMAL/64, LOW/76,

or HIGH/51), fire automatic smoke detector.

Have been investigated by UL and ULC in accordance with

the Standard(s) indicated on this Certificate.

UL 268 for Safety for Smoke Detectors for Fire Alarm Standard(s) for Safety:

Systems and CAN/ULC S529 Standard for Smoke

Detectors for Fire Alarm Systems

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark and/or the ULC Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark and/or the ULC Mark.

Only those products bearing the UL Mark and/or ULC Mark should be considered as being UL Certified and/or ULC Certified, and covered under UL's Follow-Up Services.

Look for the UL Certification Mark and/or ULC Certification Mark on the product.

aintal, ULC Mark Certification Program Ma

rs Laboratories of Canada Inc.



 Certificate Number
 20181101-S36057

 Report Reference
 S36057-20181028

 Issue Date
 2018-NOVEMBER-01

Issued to: Siterwell Electronics Co.,Limited

No.666 Qingfeng Road Jiangbei District

Ningbo

Zhejiang 315034 CHINA

This certificate confirms that representative samples of

HEAT-AUTOMATIC FIRE DETECTORS

Fire Alarm and Emergency Signaling Subassembly:

USL – Model GS650, temperature selectable (60°C/140°F; 62°C/143.6°F; 65°C/149°F), hard wired heat detector.

CNL – Model GS650, temperature selectable (60°C/140°F; 62°C/143.6°F; 65°C/149°F), hard wired heat detector.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 521, Heat Detectors for Fire Protective Signaling

Systems

ULC CAN-S530, Heat Actuated Fire Detectors for Fire

Alarm Systems

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark.

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Look for the UL Certification Mark on the product.

Bamely

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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 Certificate Number
 20180927-S25382

 Report Reference
 S25382-20180926

 Issue Date
 2018-SEPTEMBER-27

Issued to: Siterwell Electronics Co., Limited

No.666 Qingfeng Road Jiangbei District

Ningbo

Zhejiang 315034 CHINA

This is to certify that representative samples of

BOXES, NONCODED Fire Alarm Equipment:

Boxes, Non-Coded, Addressable Manual Call Points, Model

GS620 for indoor use.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 38 Standards for Safety for Manual Signaling Boxes for

Fire Alarm Systems

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC





UL Product iQ®



UL CERTIFCATIFICATION OF SOUDER/FLASHER

Signaling Appliances and Equipment for the Hearing Impaired

COMPANY

Siterwell Electronics Co., Limited

No 666 Qingfeng Road Jiangbei District Ningbo Zhejiang 315034 NINGBO, Zhejiang Sheng 315034 China

S36159

Addressable strobe light and horns, wall mounted Model(s) GS622-A (Candela 15,30,75,110, Pulse width 20ms) (Regulated 24VDC/FWR) input 16.0-33.0 VDC/FWR (Regulated 24VDC/FWR).

LED strobe light and horns, wall mounted Model(s) GS622-B (Candela 15,30,75,110, Pulse width 20ms) (Regulated 24VDC/FWR) input 16.0-33.0 VDC/FWR (Regulated 24VDC/FWR).

Visual signal devices, LED strobe light, wall mounted Model(s) GS622-C (candela 15, 30, 75 or 110, Pulse width 20ms)

Note - All models are input: 16.0-33.0 VDC/FWR (regulated 24VDC/FWR)

Trademark and/or Tradename:



Last Updated on 2023-08-04

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COMPANY INTRODUCTION

SITERWELL ELECTRONICS CO.,LIMITED which was established in 2010, locate in Jiangbei District of Ningbo City, covering an area of 56,000 square meters. The company combine research, design, production and sales and was awarded as "High-tech Enterprises", "Ningbo High-growth Enterprises", "Technological Innovation Enterprise" and "Civic Top 100 Enterprises".

Siterwell focus on creating various types of alarms, IOT industry application security solutions and smart home solutions. It's an enterprise which has firstly obtained the products' certifications of European standards, American and Australian standards in China, and also one of the most influential enterprises in Chinese alarm security fields.

Siterwell products are exported to around 66 countries, its products mainly include: various types of alarms (e.g.: smoke alarms, carbon monoxide alarms, gas alarms, heat alarms, water/water level alarms); thermostat; IOT intelligent security; smart home networking products and so on.

Our company is actively to promote the International development strategy and establish a close working relationship with many international brands and national standards laboratory. Our company established European branch to increase the international market developing ability, and fulfill international standard integrated in the brand, marketing, team, technology and management.

Siterwell staffs adhere to company spirit "customer first, honesty, candid and pragmatic and dedication", and keep implementing the business philosophy "profession casts quality and innovation accelerates development". Since establishment, we have achieved leap development and won the honor of "High-tech Enterprise", "Technology Innovation Award", "Security Industry Association Member Enterprise" and so on. Based on ISO9001: 2015 quality management system, we rerun the BSCI Human rights certification system and GB/T 29490 Intellectual property system.

Siterwell take responsibility to serve the community, revitalize the China's security industry, and make good governance, innovation, pioneering and enterprising. We have achieved several national security certification such as CE/ROHS/UL/SAI/VDS/NF/BSI/BOSEC/ KRIWAN/LPCB/ITS/ACTIVEFIRE.

For the future, we will seize the opportunity to innovate our own products and accelerate the process of internationalization to achieve economies of scale and leap-forward development and to become a leader security with international competitiveness and international reputation in China.





HONOR ADVANTAGE

- June 2012, we achieved VdS2344 certificate of smoke alarm;
- October 2012, we achieved BOSEC certificate of smoke alarm;
- August 2014, first factory who achieved VdS3131 certificate of smoke alarm in China mainland;
- September 2014, first factory who achieved NF certificate of smoke alarm in China mainland;
- March 2015, we achieved BSI certificate of carbon monoxide alarm;
- June 2015, first factory who achieved UL certificate of carbon monoxide alarm;
- August 2015, we achieved SAI certificate of smoke alarm;
- August 2016, first one who achieved UL certificate of smoke alarm in China mainland;
- · Our three co alarms have got EN50291 certificate from LPCB, we are the first manufacture who get these certificate in china mainland;
- In 2017, we had the most AS3786:2014 certificate in China;
- December 2017, we got "Stiftung Warentest";
- In 2018, our fire alarm control panel passed 10th edition of UL864.
- In 2019, we passed new UL217 8th edition test and new UL268 7TH edition test.
- In 2019, we won IF Award and Reddot design award.
- In 2020, we obtained first VDS certificate of 10-year wireless interconnected smoke alarms in China.
- In 2020, we were the first company in China having CO alarms which passed EN50291-1:2018 new standards.
- In 2020, we were awarded StiWa Test winner again.
- In 2020, we won the German iF Design Award and the American IDEA Design Award.
- In 2021, we were recognized and recommended by German VdS institutions.
- In 2022, We became the first enterprise in Asia to pass the 8th edition of the UL217 smoke alarm standard.
- In 2022, we jointly established a global strategic cooperation laboratory with SGS.

Certification of Quality Plan & Human Rights











Product Certification we already got



R&D ADVANTAGE



Professional R&D Team

Currently, we own a professional R&D team, over 150 people, covering technical core personnel in multiple fields includes industrial design, electronic design, software design, product system verification, etc., to ensure the company's continuous research and development momentum, and speed up the product development.



? Four Independent R&D Bases

- Ningbo Hardware Research and Development Center: Mainly responsible for the research, development, and design of security smart terminal series products.
- Shanghai Technology Research and Development Center: Mainly responsible for the research, development and service of smart home and artificial intelligence.
- Shenzhen Hardware Research and Development Center: Mainly responsible for the research, development, and design of smart home hardware devices and security smart terminal products.
- Xi'an Wireless Research and Development Center: mainly responsible for the development of the Internet of Things platform and the development and construction of smart home hardware equipment.



EQUIPMENT

- 3 Smoke tunnels from UK
- 3 test tunnels from Germany
- 1 test tunnel from UL
- 2 sets automatic carbon monoxide sensitivity clabration and test line

SITERWELL own the most quantity imported test tunnels for smoke alarm and also the first factory who has automatic production line on CO alarm







Constructed by a professional team from Siterwell and an advanced temperature environment simulation system, it can fully simulate actual installation scenarios and complete full functional testing of thermostat products.









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