

SI-90

MULTIFUNCTIONAL INTELLIGENT SYSTEM
FIRE/GAS/EXTINGUISHING



SHIELD
TRUSTED WORLDWIDE

SIL² **SIL³**

SIGNALING
UL
LISTED

TÜV
AUSTRIA





About Shield

Competence and innovation driven by consistent market development and customer requirements have shaped the successful development of the SHIELD Brand. The extensive product range of the market leader in the field of fire detection technology contains single, individually integrable system performances. In this way, a customized overall fire protection concept can be planned and realized for every need with optimally synchronized products.

Performance is in international demand, SHIELD is among the highly accredited fire alarm companies that meet rigorous British and American standards for all projects from small conventional system to multi-site networks. Certifications such as UL and FM approvals have earned SHIELD a world-renowned reputation with quality products and powerful solutions.

A strong brand is generally known to be a secure basis for close and lasting customer relationships. In accordance with this, SHIELD uses available potential in order to keep on growing in a dynamic competitive environment. And at the same time, SHIELD stands for innovative and high quality fire alarm and evacuation systems.

We invite you to explore and visit our new website www.shieldglobal.com. You can also send us your feedback and inquiry through our user-friendly online forms.

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Multifunctional Intelligent Control Panel

SI-90



Overview

The SHIELD SI-90 panel is intended for the protection, in complete safety, of high technologic and economic content plants and equipment. It is designed to meet the heaviest functional reliability and availability requirements, particularly of the companies that operate in the field of energy production and transformation, where it shows excellent resistance to electromagnetic disturbances. Though the panel looks like a safety PLC but, differently from this, it is certified, by European laboratories, to perform the envisaged protection functions in compliance with the applicable regulations.

The panel is composed of specialised cards, installed in 19" racks, whose type and quantity depends on specific application requirements, i.e. on the plant/equipment to be protected. The cards, which have their own "intelligence", are programmed for active/passive fire protection, gas detection, intruder alarm and technologic control management.

Moreover, the SHIELD SI-90 can interact with other panels of the same type, as well as with supervisory and SCADA systems, through both proprietary and standard protocols, such as Ethernet TCP/IP and Modbus.

Why SIL ?

- Redundant CPU, I/O cards and Power Supply available on the panel to ensure the continuous operation in case of one or more failures.
- Hot-swap: CPU, I/O cards and Power Supply can be replaced without switching off the panel, thus maintaining system and safety functionality.
- Extreme reduction of false below acceptable levels out of 100 signals there is a possibility for only one fault.
- High level of Reliability, Availability and Maintainability (RAM) for the software and hardware of the system.
- High tolerance and stability over electromagnetic noise.



Multifunctional Intelligent Control Panel

SI-90

■ Redundancy

With the intention of increasing the functional reliability in the hardware, the system is built with two CPU, Power Supply & I/O Cards. Ensuring the performance of the system to stay high and uninterrupted in case of any failure.

■ Reliability

The SI-90 system has been designed to meet the heaviest functional reliability and availability requirements, particularly of the companies that operate in the field of energy production and transformation, where it shows excellent resistance to electromagnetic disturbance and a continuous operability in difficult environmental conditions.

■ Flexibility

The SI-90 system is extremely flexible to all project requirements making it suitable for addressable & conventional Fire Detection, Gas Detection & Fire Extinguishant applications. The maximum number of devices for each control panel ranges from 9,828 to 16,380 field devices. Integration with Access Control, CCTV & BMS systems are also possible.

■ Modular

Shield SI-90 stands versatile with modular design approach. System composes of several individual components that could be group together to perform specific function. Adding or replacing any component will be much easier without effecting rest of the system.

■ Hot-Swap

The system is engineered to meet the safety integrity level standards. The CPU, I/O card and power supply can be replaced without switch off the panel.

■ Networkable

Control panels are divided into two categories: Master (receiving) and Slave (transmitting). Each control panel in the network can be indifferently slave only, master only or slave/master. A maximum of 99 control panels can be connected to each other in a network.

Multifunctional Intelligent Control Panel

SI-90

TECHNICAL DATA

Supply voltage	110 to 240 V AC (-15% + 10%)
Nominal frequency of the power supply	50 to 60Hz
Power supply set output voltage	25Vdc ±2%
Serial communication interface	2 x RS232
Ethernet communication interface	10/100BaseT with RJ45 connector
Maximum number of programmable zones	300 fire alarm zones + 300 burglar alarm zones
Maximum number of programmable points per zone	99 inputs 99 outputs 99 links
Exportable local variables via network	Max. 250
Importable remote variables via network	Max. 999
System variables (Local)	64
Time slots with holiday management	10 (with 10 intervals each)
CPU redundancy	Standard
I/O bus redundancy	Optional (only in 2R, 1-10 and 1-6R versions)
Card redundancy	Optional (only in 2R, 1-10 and 1-6R versions)
Hot swap capability	Available for all cards
Centralization between control panels	Via LAN network with TCP protocol
Supervisory system	Max. three supervisors per control panel
Management of time slots	10 categories with management of holidays
Default outputs	16 SPDT contacts
Default inputs	10 opto isolated inputs
Available protocols	MODBUS RTU

STANDARDS

DESCRIPTION

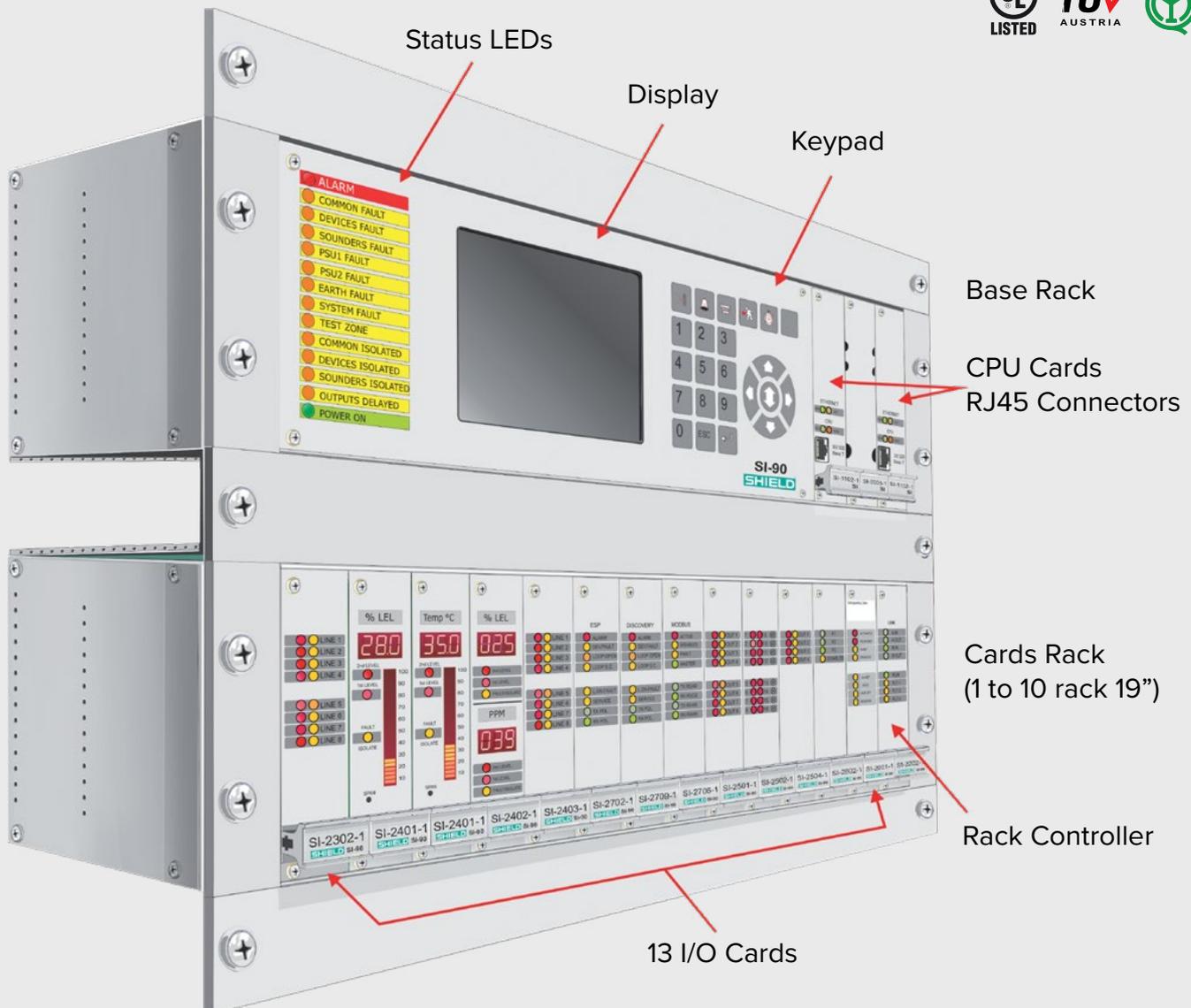
EN-54-2:1997+A1:2006	Fire detection and fire alarm systems Part 2: Control and indicating equipment
EN-54-4: 1997+A1:2002+A2:2006	Fire detection and fire alarm systems Part 4: Power supply equipment
EN-12094-1:2004	Fixed firefighting systems. Components for gas extinguishing systems. Requirements and test methods for electrical automatic control and delay devices
EN-60950-1:2001	Information technology equipment – Safety - part 1: General requirements
EN 60079-0	Part 0: Explosive atmospheres. Equipment. General requirements
EN 60079-29-1	Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases
CEI 79-2:1998 + Ab2000	Italian standard. Impianti antieffrazione, antintrusione, antifurto e antiaggressione. Norme particolari per le apparecchiature.
IEC-61508 Edition 2.0	Functional safety of electrical/electronic/programmable electronic safety-related systems
UL 864 9th Edition	Standard for Control Units and Accessories for Fire Alarm Systems
UL 2017	General-Purpose Signaling Devices and Systems

Multifunctional Intelligent Control Panel

SI-90

SIL2 SIL3

SIGNALING



ORDERING INFORMATION

UL RANGE SI-90 SYSTEM

SI-90/MB Base + 8 I/O cards in a wall mount cabinet

SI-90/U Base rack + 6 racks with 13 slots, each, for I/O cards in a wall mount cabinet

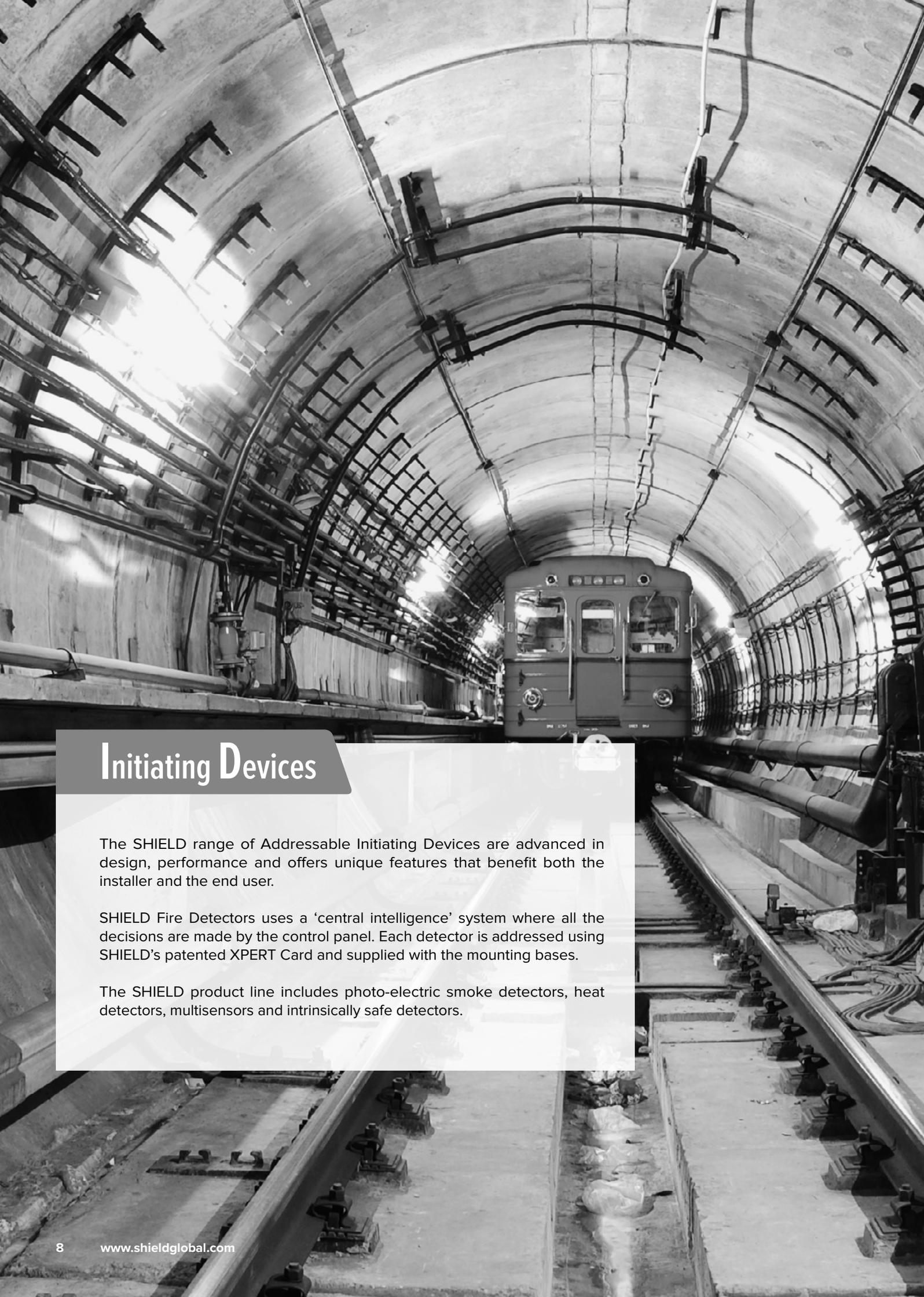
EN RANGE SI-90 SYSTEM

SI-90/L Base + 8 I/O cards in a wall mount cabinet

SI-90/1R Base rack + 1 rack with 13 slots for I/O cards in a wall mount cabinet

SI-90/2R Base rack + 2 racks with 13 slots, each, for I/O cards in a wall mount cabinet

SI-90/1-10R Base rack + up to 10 racks with 13 slots, each, for I/O cards in a free standing cabinet



Initiating Devices

The SHIELD range of Addressable Initiating Devices are advanced in design, performance and offers unique features that benefit both the installer and the end user.

SHIELD Fire Detectors uses a 'central intelligence' system where all the decisions are made by the control panel. Each detector is addressed using SHIELD's patented XPERT Card and supplied with the mounting bases.

The SHIELD product line includes photo-electric smoke detectors, heat detectors, multisensors and intrinsically safe detectors.

Initiating Devices Detectors

PRODUCT



SIL-A8021

SIL2
SIL3



TECHNICAL DATA

Description	Optical Smoke Detector
Detection principle	Photo-electric detection of light scattered in a forward direction by smoke particles
Sensor	Silicon PIN photo-diode
Operating temperature	-40 °C to +70 °C
Operating voltage	17-28 V DC
Quiescent current	300 µA
Alarm current, LED illuminated	3.5 mA
IP Rating	IP44
Standards & approvals	EN 54-7, LPCB & SIL
Dimensions (D x H)	100 mm x 42 mm (50 mm height with Mounting Base)

PRODUCT



SIL-A8022

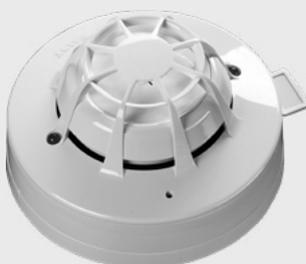
SIL2
SIL3



TECHNICAL DATA

Description	Heat Detector
Detection principle	Heat sensitive resistance
Storage temperature	-40 °C to +80 °C
Operating voltage	17-28 V DC
Quiescent current	400 µA
Alarm current, LED illuminated	3.5 mA
IP Rating	IP54
Standards & approvals	EN 54-5, LPCB & SIL
Dimensions (D x H)	100 mm x 42 mm (50 mm height with Mounting Base)

PRODUCT



SIL-A8023

SIL2
SIL3



TECHNICAL DATA

Description	Multisensor Detector
Detection principle	Smoke: Photo-electric detection of light scattered by smoke particles Heat: Temperature-dependent resistance
Operating temperature	-40 °C to +70 °C
Operating voltage	17-28 V DC
Quiescent current	400 µA
Alarm current, LED illuminated	3.5 mA
IP Rating	IP44
Standards & approvals	EN 54-5, EN 54-7, LPCB & SIL
Dimensions (D x H)	100 mm x 42 mm (50 mm height with Mounting Base)

Initiating Devices Detectors

PRODUCT



SIL-A8011

TECHNICAL DATA

Description	Intrinsically Safe Optical Smoke Detector
Detection principle	Photo-electric detection of light scattered in a forward direction by smoke particles
Sensor	Silicon PIN photo-diode
Operating temperature	-20 °C to +40 °C (T5) -20 °C to + 60 °C (T4)
Operating voltage	14-22 V DC
Quiescent current	340 µA
Alarm current, LED illuminated	4 mA
IP Rating	IP23D
Standards & approvals	EN 54, IEC61508-1, BS EN60079-11, LPCB & SIL
Dimensions (D x H)	100 mm x 42 mm (50 mm height with Mounting Base)

PRODUCT



SIL-A8012

TECHNICAL DATA

Description	Intrinsically Safe Heat Detector
Detection principle	Linear approximation over temperature range 25 °C to 90 °C
Sensor	Single NTC thermistor
Operating temperature	-20 °C to +40 °C (T5) -20 °C to + 60 °C (T4)
Operating voltage	14-22 V DC
Quiescent current	300 µA
Alarm current, LED illuminated	2 mA
IP Rating	IP53
Standards & approvals	EN54, IEC61508-1, 2, LPCB & SIL
Dimensions (D x H)	100 mm x 42 mm (50 mm height with Mounting Base)

PRODUCT



SEN-A4001



TECHNICAL DATA

Description	Standard and Intrinsically Safe Detector Base
Operating temperature	-20 °C to +60 °C
Humidity (no condensation or icing)	0% to 95% RH
Dimensions (D x H)	100 mm x 20 mm
Weight	63g
Materials	Base: White flame-retardant polycarbonate Terminals: Nickel plated stainless steel

Manual Call Points

PRODUCT



SIL-A7011

SIL2

SIL3



TECHNICAL DATA

Description	Manual Call Point
Operating voltage	17-28 V DC
Communication protocol	5-9 V peak to peak
Quiescent current	100 μ A
Alarm current (LED On)	4 mA
Operating temperature (ambient)	-20 °C to 60 °C
IP rating	IP45
Standards & approvals	EN 54-11, EN 54-17, LPCB & SIL
Dimensions (H x W x D)	93 mm x 89 mm x 59.5 mm



Interfacing Modules

The shield interface modules are intended for use with the intelligent addressable fire detection system, where each module is individually addressed by the built-in DIP switches.

These includes the interfaces with other services or an existing system which is otherwise incompatible to allow fire signal to be passed in both directions.

Interfacing Modules

Modules & Accessories

PRODUCT



SIL-A6061

SIL²

SIL³



Cert/LPCB ref. 010ah/06

TECHNICAL DATA

Description	Input / Output Unit - with Isolator
Minimum loop operating voltage in normal conditions	17 V DC
Maximum loop operating voltage	28 V DC
Switch input monitoring voltage	9-11 V DC (open-circuit condition)
Maximum cable resistance	50 Ω
Contact rating (inductive or resistive)	1 A at 30 V AC or DC
Wetting current	10 μA at 10 m V DC
On resistance	0.2 Ω
Maximum continuous current	1 A
Maximum switching current	3 A
Operating temperature (ambient)	-20 °C to 70 °C
IP rating	IP54
Standards and approvals	EN54-17, EN54-18, IEC61508-1, LPCB & SIL
Dimensions (H x W x D)	90 mm x 150 mm x 48 mm

PRODUCT



SIL-A9099

SIL²

SIL³



Cert/LPCB ref. 010ag/14

TECHNICAL DATA

Description	Intrinsically Safe Protocol Translator Single Channel
Supply voltage	19-28 V DC
Modulation voltage at translator	5 to 9 Volts peak to peak
Input current (no load condition)	1.0 mA max - Single Channel 2.0 mA max - Dual Channel
Output voltage (to barrier)	16.5 V to 19 V
Operating temperature	-20 °C to +60 °C
Standards & approvals	LPCB & SIL
Dimensions (H x W x D)	110 mm x 92.5 mm x 20 mm



Notification Appliances

Shield provides a wide range of audible/visual indication loop powered devices which serves the requirement for both the indoor/outdoor application as per the EN 54-3 standards. These Includes;

- ▶ Open Area Sounder.
- ▶ Open Area Sounder Beacon.
- ▶ Open Area Beacon.

Notification Appliances

Sounders & Beacons

PRODUCT



SEN-A4021

SIL2

SIL3



TECHNICAL DATA

Description	Open Area Sounder	
Operating voltage	17-28 V DC (polarity sensitive)	
Protocol pulses	5-9 V	
Current consumption at 24V	switch-on surge	1.2 mA for <1 sec
	quiescent	333 μA
	alarm, sounder 92/100dB(A)	5 mA
	alarm, sounder beacon	8 mA
Operating temperature	alarm, beacon	3.1 mA
Operating temperature	-10 °C to 55 °C	
Maximum sound output	100 dB(A)	
IP Rating	IP65	
Dimensions (D x H)	104 mm x 97.5 mm	

PRODUCT



SEN-A4022

SIL2

SIL3



TECHNICAL DATA

Description	Open Area Sounder Beacon	
Operating voltage	17-28 V DC (polarity sensitive)	
Current consumption at 24V	switch-on surge	1.2 mA for <1 sec
	quiescent	333 μA
	alarm, sounder 92/100dB(A)	5 mA
	alarm, sounder beacon	8 mA
Operating temperature	alarm, beacon	3.1 mA
Operating temperature	-10 °C to 55 °C	
Maximum sound output	100 dB(A)	
IP Rating	IP65	
Dimensions (D x H)	104 mm x 97.5 mm	



Input / Output Cards

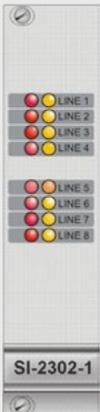
The SI-90/1-10R model is a modular unit to install up to 11 19" 3-unit high anodized aluminium racks; they will be installed in a steel cabinet with revolving rack and acrylic glass door.

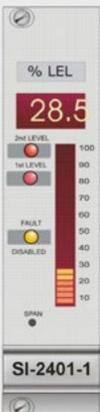
The first rack includes the Base with one or two CPUs, the operator interface display and the keyboard. The other racks are composed by one rack controller and 13 slots for installation of I/O cards.

These I/O cards will be arranged by type and number according to the requirements of the system to be protected. Each card is connected to field devices by a flat cable and an electronic terminal block fitted on a DIN bar at the bottom of the switchboard; alternatively, cards can be connected to field devices by pre-wired connectors connected to electromechanical terminal blocks.

Input / Output Cards

PRODUCT	TECHNICAL DATA			
 <p>SI-2709-1</p>	<p>SIL2</p> <p>SIL3</p>	Description	Addressable Loop Control Card	
		Application	Suitable for addressable fire detection devices	
	Redundancy	No	Number of devices per loop	127
	Loop maximum current	400 mA	Supply voltage	22 to 29 V DC
	Quiescent current	90mA	Operating temperature	-5 to +50 °C
	Storage temperature	-30 to +80 °C	Maximum humidity	95% (RH) non condensing
	Hot swap capability	yes		

PRODUCT	TECHNICAL DATA			
 <p>SI-2302-1</p>	<p>SIL2</p> <p>SIL3</p>	Description	8 Channel Monitored Input Card	
		Application	Suitable for fire extinguishing systems (pressure switches, discharge buttons, etc...)	
	Safety rating	applicable up to SIL3	Redundancy	SI-2302-2 model
	Line short circuit current	>115 mA	Channel test	every 30 seconds
	Intrinsic Safety Barriers allowed	uZ680	Supply voltage	22-29 V DC
	Quiescent current	14 mA	Operating temperature	-5 to +50 °C
	Storage temperature	-30 to +80 °C	Maximum humidity	95% (RH) non condensing
	Hot swap capability	yes		

PRODUCT	TECHNICAL DATA			
 <p>SI-2401-1</p>	<p>SIL2</p> <p>SIL3</p>	Description	Single Channel 4-20 mA Analog Input Card	
		Application	Suitable for transducer control (explosion, air quality, gas, temperature, 4-20 mA general sensors)	
	Safety rating	applicable up to SIL3	Redundancy	SI-2401-2 model
	Channel test	continuously tested	Measuring range	0-24 mA
	Line short circuit condition	with current >23.5mA	Supply voltage	22-29 V DC
	Quiescent current	35 mA	Operating temperature	-5 to +50 °C
	Storage temperature	-30 to +80 °C	Maximum humidity	95% (RH) non condensing
	Hot swap capability	yes		

Input / Output Cards

PRODUCT



SI-2402-1

SIL2
SIL3



TECHNICAL DATA

Description	Dual Channel 4-20 mA Analog Input Card
Application	Suitable for transducer control (explosion, air quality, gas, temperature, 4-20 mA general sensors)
Safety rating	applicable up to SIL3
Redundancy	SI-2402-2 model
Channel test	continuously tested
Measuring range	0-24 mA
Line short circuit condition	with current >23.5 mA
Supply voltage	22-29 V DC
Quiescent current	60mA
Operating temperature	-5 to +50 °C
Storage temperature	-30 to +80 °C
Maximum humidity	95% (RH) non condensing
Hot swap capability	yes

PRODUCT



SI-2403-1

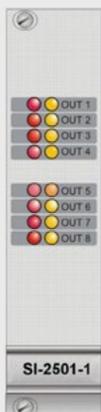
SIL2
SIL3



TECHNICAL DATA

Description	8 Channel 4-20 mA Analog Input Card
Application	Suitable for transducer control (explosion, air quality, gas, temperature, 4-20 mA general sensors)
Safety rating	applicable up to SIL3
Redundancy	SI-2403-2 model
Channel test	continuously tested
Measuring range	0-24 mA
Line short circuit condition	with current >23.5mA
Supply voltage	22-29 V DC
Quiescent current	13 mA
Operating temperature	-5 to +50 °C
Storage temperature	-30 to +80 °C
Maximum humidity	95% (RH) non condensing
Hot swap capability	yes

PRODUCT



SI-2501-1

SIL2
SIL3

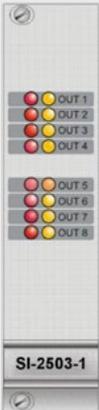


TECHNICAL DATA

Description	8 Channel 500 mA Monitored Output Card
Application	Suitable for controlling directional & releasing solenoid valves, audible/visual alarm devices
Safety rating	applicable up to SIL3
Redundancy	SI-2501-2 model
Channel test	every 2 seconds
Max. output current	500 mA
Automatic output protection	Yes
Supply voltage	22-29 V DC
Quiescent current	35 mA
Operating temperature	-5 to +50 °C
Storage temperature	-30 to +80 °C
Maximum humidity	95% (RH) non condensing
Hot swap capability	yes

Input / Output Cards

PRODUCT	TECHNICAL DATA		
 <p>SI-2502-1</p>	SIL2 SIL3	Description	16 Channel 250 mA Non-Monitored Output Card
		Application	Suitable for non-monitored open collector outputs
	Redundancy	No	
	Channel test	No	
	Max. output current	250 mA	
	Automatic output protection	No	
	Supply voltage	22-29 V DC	
	Quiescent current	10 mA	
	Operating temperature	-5 to +50 °C	
	Storage temperature	-30 to +80 °C	
Maximum humidity	95% (RH) non condensing		
Hot swap capability	yes		
	SIGNALING  TÜV AUSTRIA 		

PRODUCT	TECHNICAL DATA		
 <p>SI-2503-1</p>	SIL2 SIL3	Description	8 Channel 250mA Monitored Outputs Card
		Application	Suitable for sounder controls
	Redundancy	No	
	Channel test	No	
	Max. output current	250 mA	
	Automatic output protection	Yes	
	Supply voltage	22-29 V DC	
	Quiescent current	38 mA	
	Operating temperature	-5 to +50 °C	
	Storage temperature	-30 to +80 °C	
Maximum humidity	95% (RH) non condensing		
Hot swap capability	yes		
	SIGNALING  TÜV AUSTRIA 		

PRODUCT	TECHNICAL DATA		
 <p>SI-2504-1</p>	SIL2 SIL3	Description	4 Channel 2 A Monitored Output Card
		Application	Suitable to control automatic fire extinguishing systems
	Safety rating	applicable up to SIL3	
	Redundancy	SI-2504-2 model	
	Channel test	every 2 seconds	
	Max. output current	2 A	
	Supply voltage	22-29 V DC	
	Quiescent current	20 mA	
	Operating temperature	-5 to +50 °C	
	Storage temperature	-30 to +80 °C	
Maximum humidity	95% (RH) non condensing		
Hot swap capability	yes		
	SIGNALING  TÜV AUSTRIA 		

Input / Output Cards

PRODUCT	TECHNICAL DATA	
 <p>SI-2601-1</p>	<p>SIL2</p> <p>SIL3</p> <p>SIGNALING UL LISTED</p> <p>TÜV AUSTRIA</p> 	<p>Description</p> <p>8 Channel Outputs Control Card</p>
		<p>Application</p> <p>Used to control fire extinguishing systems typical logics, such as discharge relay & reset inhibit time</p>
		<p>Safety rating</p> <p>applicable up to SIL3</p>
		<p>Redundancy</p> <p>Yes</p>
		<p>Max. output current</p> <p>250 mA</p>
		<p>Automatic output protection</p> <p>No</p>
		<p>Supply voltage</p> <p>22-29 V DC</p>
		<p>Quiescent current</p> <p>10 mA</p>
		<p>Operating temperature</p> <p>-5 to +50 °C</p>
		<p>Storage temperature</p> <p>-30 to +80 °C</p>
<p>Maximum humidity</p> <p>95% (RH) non condensing</p>		
<p>Hot swap capability</p> <p>yes</p>		

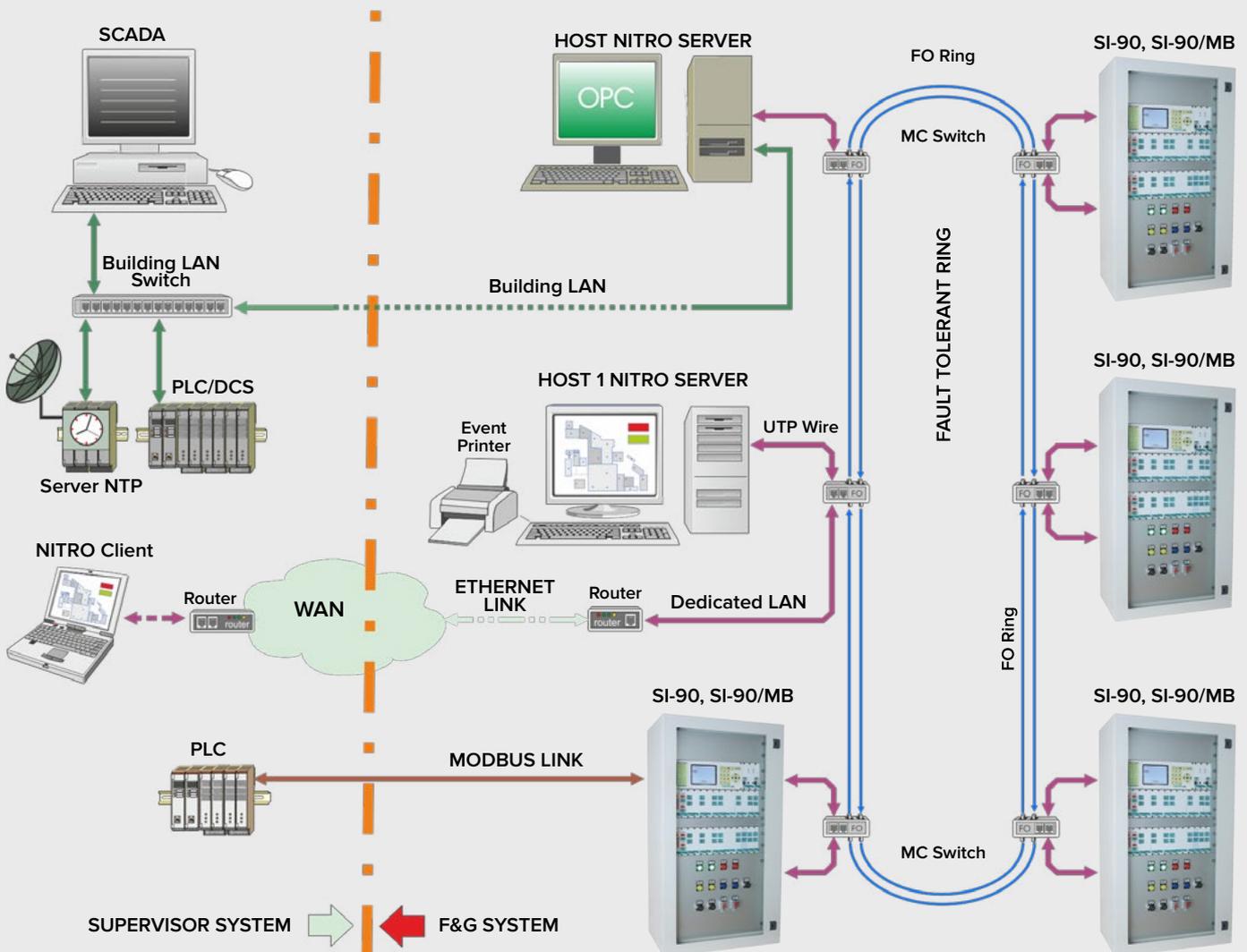
PRODUCT	TECHNICAL DATA	
 <p>SI-2602-1</p>	<p>SIL2</p> <p>SIL3</p> <p>SIGNALING UL LISTED</p> <p>TÜV AUSTRIA</p> 	<p>Description</p> <p>Logic Card</p>
		<p>Application</p> <p>To control 100 S-R flip flops, toggles & timers</p>
		<p>Redundancy</p> <p>Yes</p>
		<p>Maximum number of S-R flip flops</p> <p>100</p>
		<p>Maximum number of logic Toggles</p> <p>100</p>
		<p>Maximum number of Timers</p> <p>100</p>
		<p>Timer range</p> <p>0 to 255 seconds</p>
		<p>Supply voltage</p> <p>22-29 V DC</p>
		<p>Quiescent current</p> <p>9 mA</p>
		<p>Operating temperature</p> <p>-5 to +50 °C</p>
<p>Storage temperature</p> <p>-30 to +80 °C</p>		
<p>Maximum humidity</p> <p>95% (RH) non condensing</p>		
<p>Hot swap capability</p> <p>yes</p>		

System Architecture

The SI-90 control panel is a high technology product created for controlling safety-related systems and equipment. It is characterised by easy configuration and programming, combined with excellent reliability and system diagnosis. SI-90 is similar to a “safety PLC” and can be configured and programmed for carrying out, in compliance with applicable standards, integrated safety functions such as:

- fire detection.
- gas detection.
- burglar alarm.
- technological control.

The SI-90 can also interact with other control panels of the same type and with supervisory systems via both standard and proprietary protocols such as TCP/IP Ethernet, Modbus RTU, or OPC Server.



Graphic Supervision Program

Nitro

Nitro is a supervision program that allows a computer-based event management of fire and crime squad systems through animation and graphic pages. Basically Nitro allows to manage the activity of the installation without physically moving to it. Nitro program can be installed on one or more PCs that will connect to the control panel with a LAN Ethernet or serial line.

Nitro has an easy configuration in order to adapt to the fire and gas installation requirements. From the main panel, the administrator can modify the graphic pages and the fire plant features on the map.

Moreover, the administrator can decide all possible actions for each level of access and the graphic pages visible on each PC. In addition to the basic functions, the program NITRO can also have some on-demand options such as NITRO VIDEO or be customized according to the client's needs.

Features

- PC installed (MS Windows).
- Compatible with both SI-90 and SI-90/MB control panels.
- Access and configuration with USB protection device.
- Connection to the plants though LAN Ethernet or serial line.
- Choose of language – Italian, English, French and on request.
- Import zone names and entities from panels.
- Maps in bitmap format (bmp, jpg, etc.).
- Past events with filter to see and export data.
- On line manual.



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