SOLUTIONS F1

Fire control Panels - the New Generation

- Modular, Intelligent Hybrid Fire Control Panel Range Supports Hochiki ESP and Apollo XP95 / Discovery detectors.
- 2 – 18 Loops in one standard housing.
- Brand new touch control panel.
- Graphics LCD module 240 x 6as standard included on basic model.
- Integral power supply 24 V DC with max. 6.7 A or 4.2 as standard included.
- 32 bit high performance CPU.
- Flash memory up to 8 MB and RAM memory up to 8 MB.
- Configuration software operated via Modem or USB interface.
- Full redundant main board and full redundant loop cards as options.

The standard configuration is impressively equipped, unlike almost all other models on the market. Some of the standard features included are:

- Graphics LCD module with 240 x 64 dots
- Integral power supply with 4.2 A or alternative 6.7 A
- Steel housing with brand new touch control panel
- 3 separate power outputs for transmission device / sounders / strobes
- USB interface for configuration by PC
- Up to 8 programmable push buttons
- Redundant RS – 485 interface
- 3 x RS – 232 interfaces
- 2 Monitored conventional zones
- 16 digital outputs , programmable
- 8 digital inputs, monitored for" open – circuit"
- 4 relay change over contacts, programmable
- Earth fault detection
- Event log max. 10,000 messages.

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Loop card for Solution F1 with 2 loops / 4 stub lines

- 2 loops – each maximum 254 detectors / modules (Apollo: 2 x 126) – or alternative 4 stub lines
- cable length max. 3,500 m (2 x 2 x 0.8)
- 8 user programmable open collector outputs
- up to 127 loop sounders per loop can be activated at the same time
- cable shielding monitored for open and short circuit
- Earth fault detection

Redundant Loop card for "Solution F1" with 2 loops / 8 stub lines

- As Loop card for "Solution F1" with 2 loops / 8 stub lines but additionally with 100 % redundancy. This means the micro processor, the RAM and the operating system memory are doubled on this card. So there will be no failure in case of micro processor fault.

Conventional detector card for 8 stub lines

- compatible to almost all conventional detectors on the market
- 32 detectors per line according German standards
- 8 programmable open collector alarm outputs
- Earth fault detection
- Failure mode in case of micro-processor fault

Conventional detector card with 100% redundancy for 8 stub lines

- as Conventional detector card for 8 stub lines but with 100 %. That means the micro processor, the Ram and the operating system memory are doubled on this card. So there will be no failure in case of micro processor fault.

Relay card with 8 change over contacts

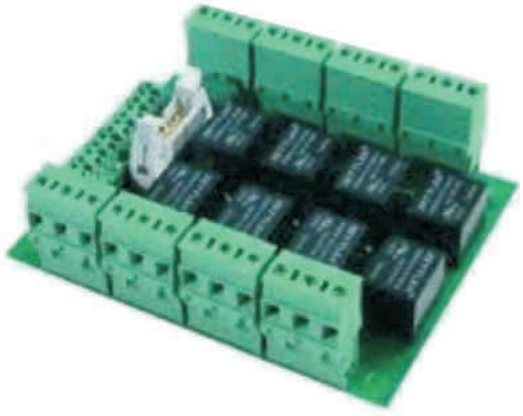
- compatible to F1 fire detection system but usable as a universal device in other systems too
- 8 programmable change over contacts, each 250 V AC / 5 A

Analogue or ISDN modem for operating the configuration software via telephone line

- The modules can be plugged into a slot in the "Solution F1" Fire Control Panel. Data speed up to 64,000 bps and they use the Fire Control Panel battery backup in case of mains failure.

Full Redundant CPU Module

- Additional plug-in module to achieve a full redundant main board
- According to EN54 standard necessary if more than 512 detectors are connected
- VdS approval G 205 024



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SOLUTIONS F2

Fire control Panels - the New Generation

- Intelligent Single-Loop Panel with comprehensive possibilities to extend for small applications
- Designed according to EN54 standard, part 2 and 4;VdS and CPD approved
- Supports Hochiki ESP sensors and modules as wellas the Apollo ranges XPlorer, XP95 and Discovery
- Integrated Control Panel including graphics LC module and internal Power Supply Unit 24 V / 2,5 or 3,5 A
- PC configuration by the well-known and easy- touse NSC configuration software (Windows XP.NET based)
- USB and RS232 interfaces included in the standard configuration
- Extension modules available for controlling of the German Fire Brigade Control Panel incl. transmission device, for RS485 interfaces
- User-friendly membrane keypad with programmable push buttons for user defined functions
- Windows Explorer based software and so it is very easy and fast to handle
- Implemented by Windows.NET
- For configuration of detectors, zones, inputs, outputs, loops and spurs
- For analysing of analogue values / cable resistors / statistics / event memory
- Drag- and drop functionalities
- For use with analogue or ISDN modem as well

VdS

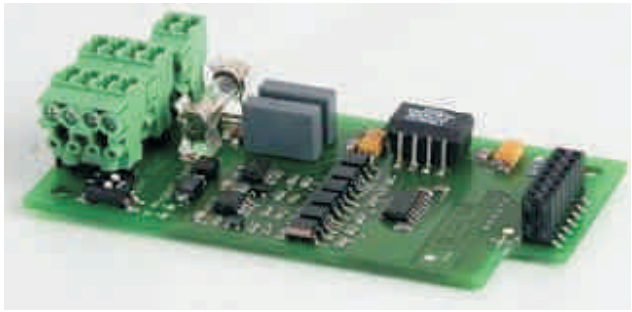
AKSHARATEK SYSTEMS PVT. LTD.

NSC Sicherheitstechnik GmbH

I/O Interface Card

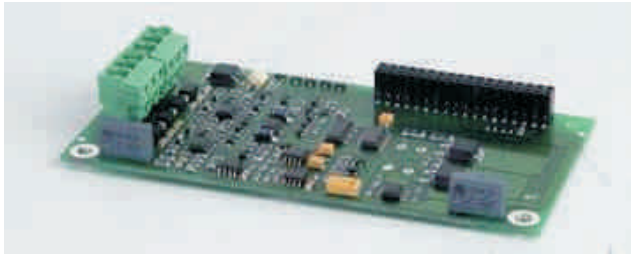
- This module can be used as universal I / O module or as interface card for the Fire Brigade. It provides 3 programmable dry relay contacts, 2 programmable and monitored sounder outputs, 1 monitored input zone and 16 digital & programmable OC inputs/outputs.

Loop module for second detector loop



- The second loop module supports also two protocols: Hochiki ESP sensors as well as all addressable Apollo sensors. In case of the ESP detectors 127 sensors/modules plus 127 base sounders are supported. In case of Apollo 126 sensors, modules and loop sounders are supported. The maximum cable length is 3,500 m

RS485 Interface card



- The RS485 interface card provides two separate useful Rs485 interfaces. So these can be used to connect building management systems (BMS) or LCD repeater panels. If you are using them as a redundant RS485 interface the German Fire Brigade LCD Repeater Panel (FAT) can be connected according to DIN 14662. The protocol and the baud rate are programmable by the Solution F2 software.

NSC Webserver Module

- Permits the access to NSC Fire Control Panels via the Internet without special software
- Use of the www infrastructure à e.g. by means of Internet Explorer, Firefox, Safari etc.
- User administration for 30 users
- Access by user name and password
- 9 different access authorizations
- Indicates all messages/status of the FCP
- Shows the complete event log
- Online control of the Fire Alarm Panel front facia
- Complete operation of the FCP Plug-in module

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