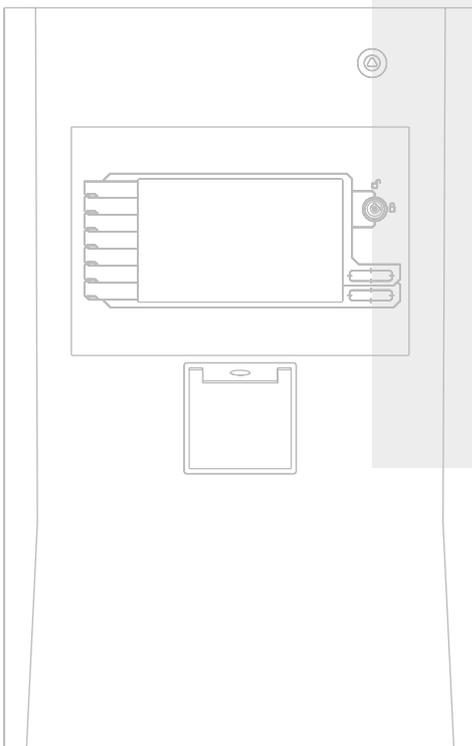
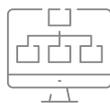


The control unit has modular structure, which makes its expanding and servicing easy. In its basic version, it is provided with a user panel, a control module with an integrated supervisory loop, a power supply unit and a set of batteries. Expansion and customisation of the control is achieved by installing appropriate extension cards and configuring the system.



TOUCH SCREEN

7" touch screen with intuitive menu



WEB SERVER

embedded functionality of handling from any internet browser



BACnet ready

COMPATIBLE WITH BACNET

embedded BACnet for communicating with the BMS



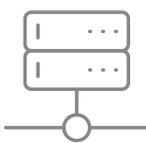
Modbus ready

COMPATIBLE WITH MODBUS

embedded Modbus for communicating with the BMS



Optionally, the control units can be monitored via TCP / IP protocol. Remote access to system operation may take place via dedicated software or via web browser. The use of RJ-45 connectors and IP technology allows the system to be integrated with building management systems (BMS), security management systems (SMS) and visualisation systems (Smart Visio).



ROUTER



INTERNET



PC



BMS

building management system

FEATURES OF THE FAS CONTROL UNIT

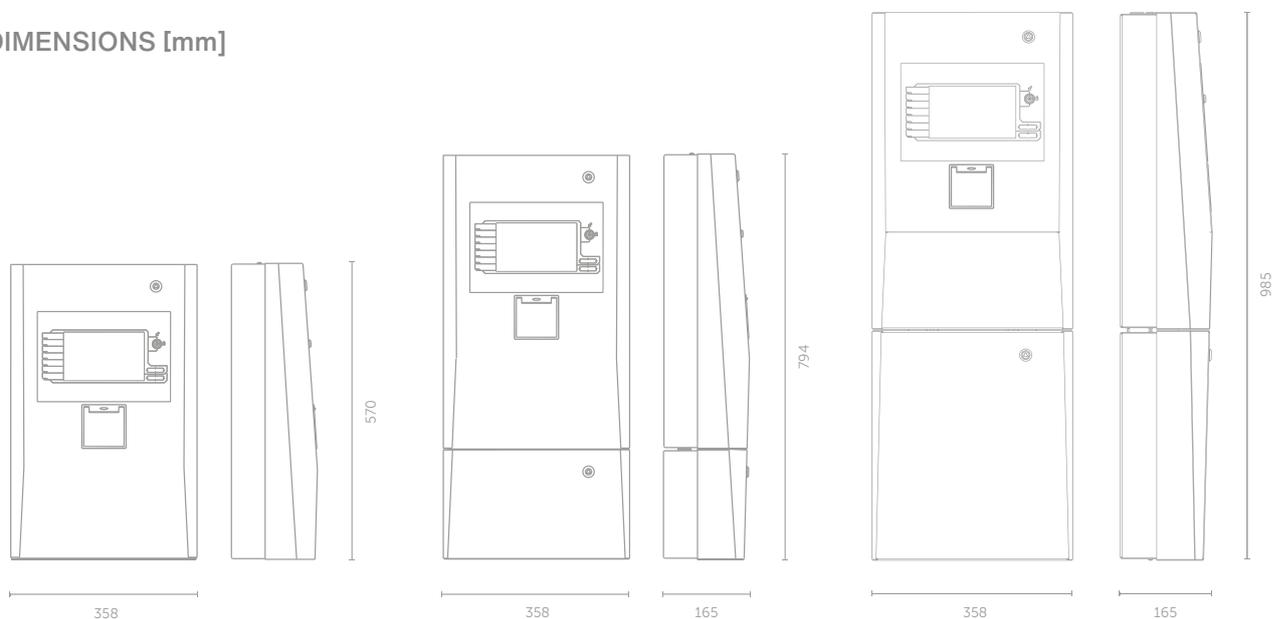
- > up to 10 supervised loops
- > up to 250 elements per loop
- > up to 10 000 zones per system
- > built-in outputs:
 - alarm output for Fire Brigade call
 - output of siren lines
 - fault output
 - universal relay output
- > maximum loop length up to 2 km
- > loop break detection
- > event counter up to 15000 entries
- > extension cards
- > compliance with EN 54-2, EN 54-4
- > built-in printer
- > compatibility with Smart Visio application
- > web interface, BACnet, Modbus

TECHNICAL DATA

FEATURE	FIRE ALARM CONTROL UNIT OF FAS
TYPE	ADDRESSABLE
SUPPLY VOLTAGE	170-260 [VAC] 50 [Hz]
OUTPUT POWER	20-30 [VDC]
BATTERIES	26 / 52 / 78 [Ah]
INPUT/OUTPUT CABLE CROSS SECTIONS	MAX. 2.5 [mm ²]
CROSS-SECTIONS OF WIRES IN THE SUPERVISED LOOPS	0.8 – 1.5 [mm ²]
MAX. CABLE LENGTH OF THE SUPERVISED LOOP	2 [km] *
DETECTION CIRCUIT TYPES	LOOP/ LINE / COMBINATION OF LOOP AND LINE
MAX. NUMBER OF DETECTION LOOPS	10
MAX. NUMBER OF DETECTION LINES	20
MAX. NUMBER OF SUPERVISED ZONES	10000
MAX. NUMBER OF ELEMENTS PER LOOP	250 *
MAX. NUMBER OF ELEMENTS PER LINE	32
NUMBER OF SIREN LINE OUTPUTS	2
ALARMING VARIANTS	UP TO 30
UNIVERSAL INPUTS	UP TO 12
UNIVERSAL RELAY OUTPUTS	UP TO 11
EVENT COUNTER	15000
ACCESS LEVELS	4
PRINTER	YES, OPTIONALLY
LAN CONNECTOR	YES
CASING	POWDER PAINTED STEEL, RAL 3000
CASING TIGHTNESS	IP30
OPERATING TEMPERATURES	10 UP TO 40 [°C]

* depends on cable type and number of elements, requires calculation during design process

DIMENSIONS [mm]



CONTROL UNIT EXTENSION CARDS



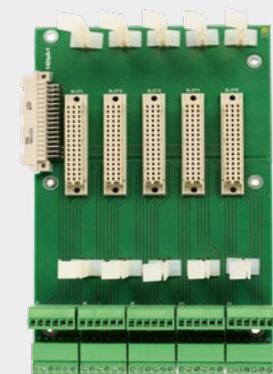
DETECTION LOOP CARD
KPD 2



INPUT / OUTPUT CARD
KIO 22



COMMUNICATION CARD
KRS 422 / KRS 422 FO



EXTENSION SLOTS
PR3 / PR5

FEATURE	DETECTION LOOP CARD KPD 2
ASSEMBLY	INSIDE THE FAS CASING
NUMBER OF SUPERVISED LOOPS	2
DETECTION CIRCUIT TYPES	LOOP, LINE
MAX. NUMBER OF ELEMENTS	UP TO 250 PER LOOP *
MAX. CABLE LENGTH	UP TO 2 [km] *
MAX. NUMBER OF CARDS	5
PRODUCT CODE	FSC004

* depends on cable type and number of elements, requires calculation during design process

FEATURE	INPUT / OUTPUT CARD KIO 22
ASSEMBLY	INSIDE THE FAS CASING
NUMBER OF INPUTS	2 SUPERVISED INPUTS
NUMBER OF OUTPUTS	2 RELAY OUTPUTS
MAX. OUTPUT LOAD	30 [VDC], 0,5 [A]
MAX. NUMBER OF CARDS	5
PRODUCT CODE	FSC005

FEATURE	COMMUNICATION CARD KRS 422		COMMUNICATION CARD KRS 422 FO
	ASSEMBLY	INSIDE THE FAS CASING	
MAX. NUMBER OF CONTROL UNITS IN NETWORK	10		
CABLE TYPE	FTP	HTKSHekw	MULTI-MODE FIBRE OPTICS
MAX. DISTANCE BETWEEN CONTROL PANELS [m]	500	1000	5000
MAX. NUMBER OF ESP PANELS	10		-
PRODUCT CODE	FSC006		FSC007

FEATURE	EXTENSION SLOT PR3	EXTENSION SLOT PR5
ASSEMBLY	INSIDE THE FAS CASING	
NUMBER OF CARD SLOTS	3	5
PRODUCT CODE	FSC009	FSC010