

ANALOGUE ADDRESSABLE FIRE DETECTION SYSTEM

EN 54-2
EN 54-4
EN 54-13
EN 54-21
EN 12094-1

The FRN-3002series of analogue addressable fire alarm panels consists of 3 models (1, 2 and 4 loop connections), named FRN-3002, Compact PRA-CO50SG,&Compact PRA-CO100SG respectively, all sharing the same control interface, functionality and indications.

The accompanying software application for Windows PC, FRN-3002 provides utilities for calculating installation parameters, configuring the control panel and keeping an event log record

All FRN-3002 models include 4 outputs for conventional sirens, an alarm relay, a fault relay and a programmable auxiliary relay. Two 12V lead acid (Pb) batteries are required in each control panel. The supported battery capacity is 7Ah, 9Ah, 12Ah or 15Ah, which must be calculated in accordance with the size of the installation (number of devices) and the required emergency duration (during mains interruption).





Technical Characteristics

	FRN 3002 Addressable fire detection panel 1 loop / 128 zones	Compact PRA-CO50SG Addressable fire detection panel 2 loops / 128 zones	Compact PRA-CO100SG Addressable fire detection panel 4 loops / 128 zones	FRN-3002-R Repeater panel
Mains power input	220-240V AC/50-60HZ			
Consumption	130 VA max			
Autonomy	up to 72 hours (without loads at 24VM and 24VP outputs)			
Conventional sounder / siren circuits	4 x 24VDC (\pm 3VDC) / 300mA max short / open circuit monitored 10k Ω termination resistor			
24VP Output	24VDC (\pm 3VDC) permanent output / 300mA max short-circuit monitored			
24VM Output	24VDC (\pm 3VDC) resettable output / 300mA max short-circuit monitored			
Relay Output	3 relay contacts (30VDC/5A)			
Total Load	The total current of the panel (loops, siren circuits, outputs 24P, 24M) must not exceed 2A			
Battery Specifications				
Battery Type	2 lead batteries sealed 12V / 7-15Ah			
Battery cut-off voltage	20,5V			
Maximum battery current discharge	2A max			
Battery resistance (ESR)	1 Ω max (higher values will lead to battery resistance fault)			
Structural characteristics				
Cover protection	IP 30			
Construction materials	ABS/PC, electrostatically painted steel			
Dimensions (LxWxH)	355 x 115 x 345 mm			
Weight (without batteries)	4.08Kgr	4.21Kgr	4.33Kgr	4.08Kgr

CODE	TYPE	DESCRIPTION	kg
921100102	FRN 3002	Analogue Addressable fire alarm panel with 1 loop (A Protocol)	4080gr.
921100200	Compact PRA-CO50SG	Analogue Addressable fire alarm panel with 2 loops (A Protocol)	4210gr.
921100400	Compact PRA-CO100SG	Analogue Addressable fire alarm panel with 4 loops (A Protocol)	4330gr.
921100000	FRN-3002-R	Repeater for FRN-3002 series panel	4060gr.

ADDRESSABLE FIRE DETECTION PERIPHERAL DEVICES FOR PANELS BSR-1001/1002/1004

CODE	TYPE	DESCRIPTION
921100402	Compact PRA-CO100SG/MODBUS	Additional board to support FRN-3002 panels status monitoring via MODBUS ASCII protocol
927200002	A-200	Thermal printer for the addressable panel FRN-3002 (includes Compact PRA-CO100SG/Printer)
927200003	A-200/ETHERNET	Thermal printer for the FRN-3002 addressable panel (includes FRN-3002/Ethernet-printer)
923853000	GR-8530	Network ethernet adaptor
921100407	FRN-3002/ETHERNET-PRINTER	Ethernet network card with capability of event printing for FRN-3002 series panels
921100408	FRN-3002/ETHERNET-MODBUS	Ethernet network card with capability of status monitoring via MODBUS with ASCII protocol for FRN-3002 series panels
923650002	FRONTIER PC-1000	Safety system networked panel remote monitoring device Configuration PC software for fire alarm installation

GRAPHICAL ENVIRONMENT SOFTWARE FOR FIRE DETECTION SYSTEM MANAGEMENT

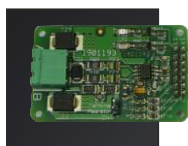
CODE	TYPE	DESCRIPTION
921110100	CMI-1101	Visual software monitor FRN-3002

BATTERIES

CODE	TYPE	DESCRIPTION
603001270	A-986	12V / 7Ah SF GUARD 12-7.0 Sealed lead acid battery
603001290	A-961	12V / 9Ah Lead acid battery
603101212	A-940	12V / 12Ah Lead acid battery
603101215	A-1214	12V / 15Ah Lead acid battery

DEVICE FOR CONNECTION WITH PC

CODE	TYPE	DESCRIPTION
921485100	BMS-485	Device for connection FRN-3002 panel with PC



Compact PRA-CO100SG MODBUS



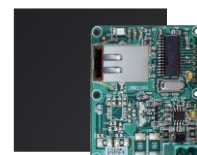
FRN-3002/ETHERNET-PRINTER



A-200
A-200/ETHERNET

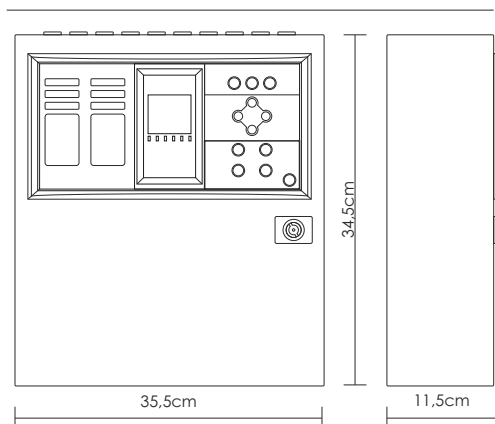


GR-8530



FRN-3002/ETHERNET-MODBUS

Dimensions





BMS-485



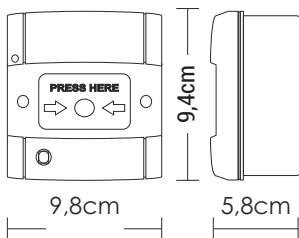
FRONTIER GATEWAY





ADDRESSABLE MANUAL CALL POINT

CODE	TYPE	DESCRIPTION	 VOLTAGE	STANDBY/ALARM CONSUMPTION	
921513600	FRN 60	Addressable manual call point with integrated isolator	IP20 11-30V DC	90µA / 2,5mA	185 gr.

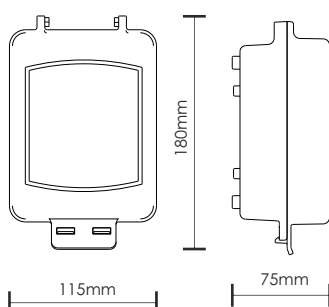
Dimensions



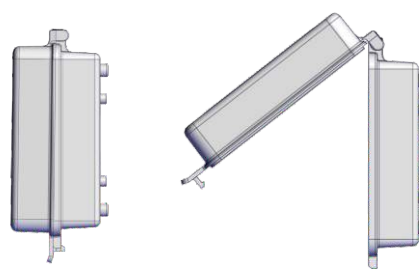
WATERPROOFING CASE

CODE	TYPE	DESCRIPTION	 IP65	
927535000	FRN-WP	Waterproofing case for fire alarm call point (fire alarm call point is not included)	IP65	280 gr.

Dimensions





Side view

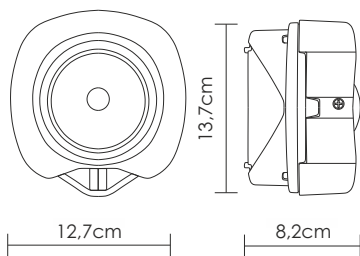




ADDRESSABLE SIRENS



CODE	TYPE	DESCRIPTION	 IP65	MAXIMUM SOUND LEVEL IN 1 METER	VOLTAGE	STANDBY//ALARM CONSUMPTION	
921513201	FRN 92	Waterproof addressable siren with beacon and integrated isolator	IP65	101dB, Dip switch for siren and beacon selection	11-30V DC	90µA / 11,2-52,4mA	185 gr.
921513000	FRN 92	Waterproof addressable sounder with integrated isolator	IP65	101dB, Dip switch for siren selection	11-30V DC	90µA / 7.4-35.9mA	313 gr.



Dimensions



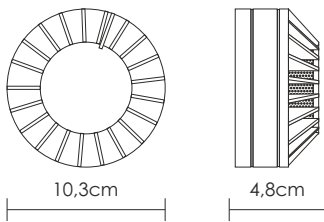




ADDRESSABLE DETECTORS

CODE	TYPE	DESCRIPTION		CLASS	VOLTAGE	STANDBY/ALARM CURRENT	
921615500	FRN 30	Addressable optical smoke detector with integrated isolator	IP42	-	11-30V DC	195µA/2,5mA	160 gr.
921615700	FRN 36	Addressable optical smoke and rate-of-rise heat detector with integrated isolator	IP42	A1R/A1S	11-30V DC	195µA/2,5mA	160gr
921616000	FRN 20	Addressable rate-of-rise heat detector with integrated isolator adjustable	IP42	A1R/A1S/CS	11-30V DC	90µA/2,5mA	145 gr.

DETECTORS WITHOUT BASE				CLASS	VOLTAGE	STANDBY/ALARM CURRENT	
CODE	TYPE	DESCRIPTION					
921615501	FRN 30/WB	Addressable optical smoke detector with integrated isolator without base	IP42	-	11-30V DC	195µA/2,5mA	160 gr.
921615703	FRN 36/WB	Addressable optical smoke and rate-of-rise heat detector with integrated isolator without base	IP42	A1R/A1S	11-30V DC	195µA/2,5mA	160 gr.
921616003	FRN 20/WB	Addressable rate-of-rise heat detector with integrated isolator without base	IP42	A1R/A1S/CS adjustable	11-30V DC	90µA/2,5mA	145 gr.

Dimensions



ACCESSORIES				VOLTAGE	STANDBY/ALARM CURRENT	
CODE	TYPE	DESCRIPTION				
921196000	BASE-196/N	Waterproofing box for fire alarm sensor base with cable glands	IP20			160 gr.
921612400	FRN 97	Base for addressable detector with siren and beacon	IP20	11-30V DC	- /5mA	145 gr.
808165501	BS-6155	Integrated base for the detectors	IP20			50 gr.



BASE-196/N



FRN 97



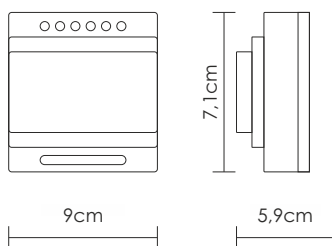
BS-6155



ADDRESSABLE TWIN INPUT/OUTPUT UNIT

CODE	TYPE	DESCRIPTION	 VOLTAGE	STANDBY/ALARM CURRENT	
921812000	FRN 56	Addressable twin input/output unit with integrated isolator	IP20 11-30V DC	200µA/2,5mA	136 gr.

Dimensions



REMOTE DETECTOR LED

CODE	TYPE	DESCRIPTION	VOLTAGE	 STANDBY/ALARM CURRENT	
921572000	FRN- RI	Remote detector LED (red)	Connected with "R" of the detector	IP20 10mA	50 gr.

 The packaging contains 100pcs.