Control Panels
communicating control panel

Matrix 832 — *not available in the UK*

INDUSTRIAL / COMMERCIAL / RESIDENTIAL

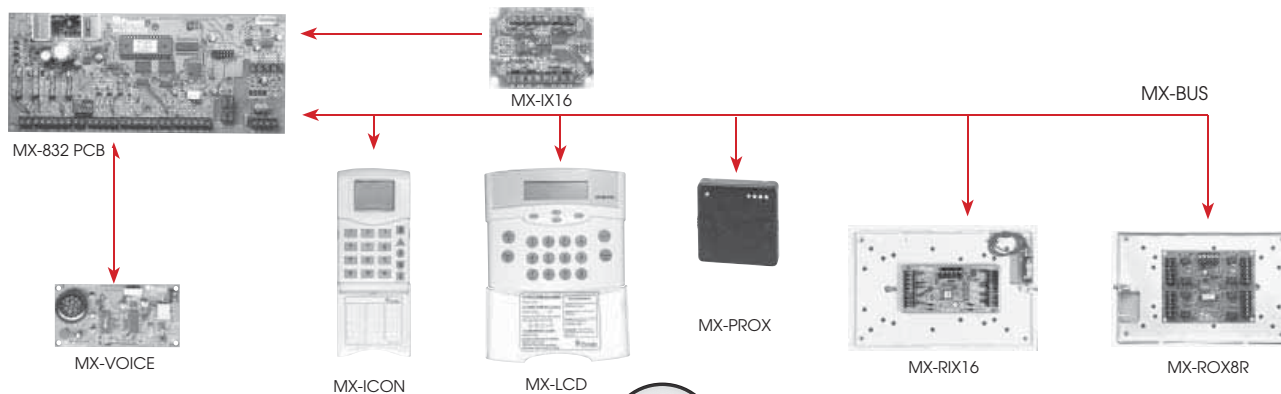**8 to 32 Zone Control Panel with In-built Digital Communicator**

Main Features

- 4 Partitions
- 4 Arm modes per partition
- 8 Fully programmable zones expandable to 32
- 4 Fully programmable outputs expandable to 12
- 32 User codes
- 9 Telephone numbers
- Contact ID, Fast Format
- 300 Event (real time) log
- Up to 6 devices on the bus
- Proximity Reader available
- MX-Voice compatible
- Up/downloading capability

Product Features

Features	Description
4 Partitions	The system can be divided into 4 fully independent sub systems with independent zones, user codes, keypad timers and options
4 Arm Modes with 4 account codes	Within each partition all zones can be configured in a different way for each arm mode to create 4 different home and away combinations to satisfy end user requirements
8 –32 Fully programmable zones	All zones can be programmed entry/exit, access, immediate, omitted, fire, PA, tamper, key box, shunt keypad, momentary keyswitch, latch keyswitch, 24hr
Zone loop configuration	Zones can be individually configured as DEOL, N/O, N/C
Fast zones option	Enables connection of shock sensors to zones 4,5 and 6 for 30 ms fast zone loop response time
Zone doubling	An alternative way of zone expansion to expand the Control Panel to 32 zones
Multi language LCD keypad	This keypad is available in 12 different languages (see MX Accessories page)
Proximity reader	Allows the user to arm/disarm the control panel as well as open / close doors
Contact ID format	Full event reporting over the telephone line to a digital receiver
Fast Format	Event reporting over the telephone line to a digital receiver
Pyronix PC format	Full event reporting over the telephone line to a PC using a modem and MX-MON receiving software
MX-Voice	Using this module it is possible to send a maximum duration of 72 secs pre-recorded voice messages to the end users' phone. 8 different messages may be programmed
RS 232 output	This output enables programming and viewing the event log from a local PC connection
Up to 12 fully programmable outputs	Fully programmable outputs that can be used with radio transmitters, sirens and other external devices
Heavy duty lightning protection	High protection for installation in environments where lightning could damage the digital communicator
MX-485 Network	Ability to be used with MX-485 Network

Bus Diagram

MX-IX16

MX-BUS

MX-832 PCB

MX-VOICE

MX-ICON

MX-LCD

MX-PROX

MX-RIX16

MX-ROX8R

Electrical

Zones	
Number of programmable zones	8 zones expandable to 32
Zone loop configuration	N/C, N/O, DEOL
Zone current loop	0.5 mA max
Normal zone loop timers	0.3 sec
Fast zone loop timers	0.03 sec ZONE 1
Fast zone loop timers	0.1 sec ZONE 2-24
Zone wire resistance	<470 Ohm

PGM outputs	
PGM1	Relay Contact, 30V DC 3A
PGM2, PGM3	Open Collector, 200mA
PGM4 (2 WIRE FIRE detector option)	Open Collector, 10mA

Digital Communicator	
Digital Communicator	Analogue
Lighting protection	6.75kV/125Amps

Power Supply	
Power Input	17V AC
Low Voltage output	13.6V DC 1A regulated
Max capacity power output (including panel)	1.2A
Max power for external devices (excluding battery)	600mA
Transformer	Primary: 230VAC, 50Hz, 20W Secondary: 17VAC, 1.25A

Current Consumption	
PCB alone	60mA
MX-Icon keypad	40mA to 60mA
MX-LCD keypad	20mA to 80mA
MX-PROX	90mA
MX-IX16 – 8 zone onboard zone expander	1mA
MX-RIX – 8 zone remote zone expander	25mA
MX-ROX8R – relay 8 PGMs expander	225mA, 30V - 3A max
MX-ROX8T – open collector 8 PGM expander	45mA, 12V – 500mA max
MX - VOICE	25mA

Battery	
Capacity	2.8 – 7.2 A/h
Protection on Battery Terminals	Short & reverse
Battery charge	Min 6V

Fuse Protection	
AC input	2A
AUX	1A
Keypad AUX	1A
Battery input	5A
Mains Fuse	250mA

Environmental	
Operating Temperatures	0° to 40°C
Storage Temperature	-20° to 60°C

Product Options

PYRONIX PRODUCT CODE BY ASSEMBLY OPTION

Keypad Included		PCB + RKP* + Poly Cabinet + Transformer + Mains Connector + Tamper Kit		PCB + RKP* + Poly Cabinet		PCB + RKP*	
	Language	Pyronix Product Code	Individual Weight	Pyronix Product Code	Individual Weight	Pyronix Product Code	Individual Weight
ICON	-	FPMX832002	2.710 Kg	FPMX832010	1.855 Kg	FPMX832014	0.900 Kg
LCDI	EN/SP/FR/IT/POR	FPMX832003	2.505 Kg	FPMX832011	1.855 Kg	FPMX832015	1.005 Kg
LCDII	EN/RUS/BOL/ POL/HUN/CZ	FPMX832004	2.505 Kg	-	-	FPMX832016	1.005 Kg
LCDIV	EN/SP/FIN/SWED/ DAN/NOR	-	-	FPMX832018	1.855 Kg	-	-

* Remote Keypad

Additional Accessories

Product Name	Description	Pyronix Product Code	
MX-ICON	User friendly ICON LCD keypad		FP12030
MX-LCD	Multilanguage LCD keypad		FP12600
MX-PROX	Internal proximity reader	WHITE	FP16100W
		BLACK	FP16100BK
MX-IX16	8 Zone plug on zone expander		FP12300
MX-RIX16	8 Zone remote expander with inertia analyser		FP12900
MX-ROX8R	8 Programable output (PGM) relay expander		FP12810
MX-ROX8T	8 Programable output (PGM) open collector expander		FP12830

Product Name	Description	Pyronix Product Code
MX-VOICE	Voice module	FP14600
RS232 CABLE LINK	Enables local programming	FP11480
MX-UDL	Up / downloading Software	Available From www.pyronix.com/ downloads
MX-MON	Monitoring software	FP12010
MX-INSTCD	Manual & software collection	FP12000

COMPLIANCE	
Europe	
Russia	⊘ ОП021 PC
China	ⒸⒸⒸ

As part of the continued development programme
specifications may change.