VIDEX® Art.VX800N
Installation Instructions

MODELS:

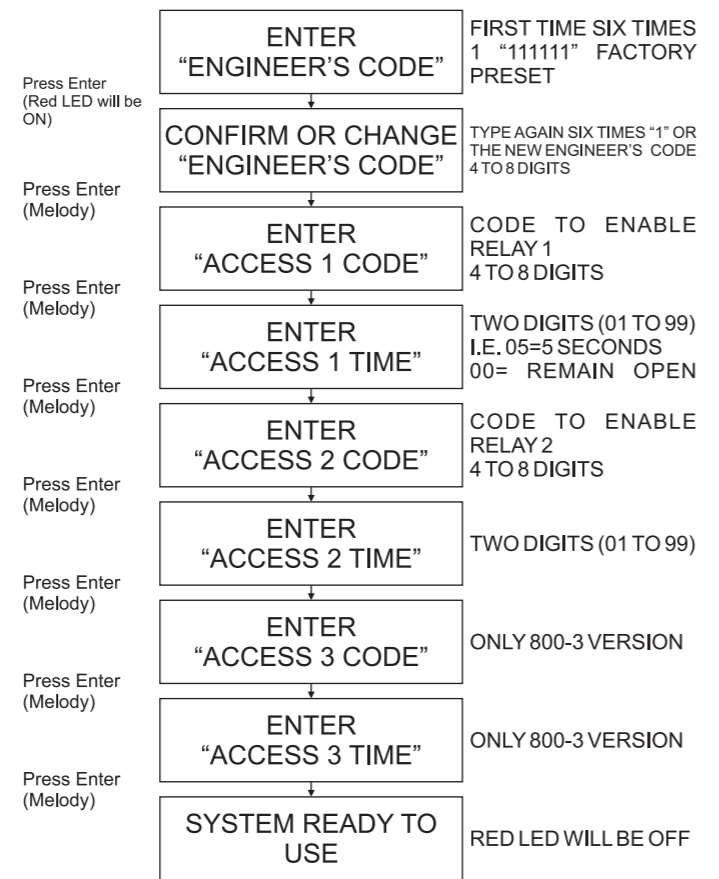|	
VX800N-2	Module 2 Relay
VX800N-2L	Module 2 Relay plus panel illumination
VX800N/F	Stand alone unit 2 Relay. Flush mounting
VX800N/S	Stand alone unit 2 Relay. Surface mounting
VX800N-3	3 Relay
VX800N-3L	3 Relay plus panel illumination

FEATURES

- Access control system with 2 codes and 2 Relay outputs (3 codes, 3 relays on VX800N-3.. version).
- Engineer's code to enter into the "Programming Menu" (from 4 to 8 digits).
- Programming of the activation time of each relay from 1 up to 99 seconds or latching.
- Possibility to activate relay 1 by shorting terminal "SW1" to GND and relay 2 by shorting terminal "SW2" to GND. Both relays will operate for the programmed time (this feature is not available on VX800N-3 version).
- Keypad gives an acoustic (buzzer) signal during the entering of codes and a continuous melody for 4 or more seconds, according to the number of mistakes (self protection).
- Keypad includes panel illumination (VX800N-..L only) and 2 LED's to show the following:
  - Correct relay code (green LED on for 2 seconds).
  - Red LED to indicate when in the "programming menu".
- Contacts of the relays are available (N.O and N.C) with 5A max 24Vac/dc.
- Power requirements: 12/24V AC/DC, 2VA.
- Working temperature: -10 +50°C

OPERATION

To use the system, type in the programmed code and press "ENTER" , the green LED will illuminate and the relay will operate for the programmed time.To cancel remain open time, type in the same code and press "CLEAR". If a wrong code is entered, a continuous melody will sound for 4 or more seconds, according to the number of mistakes.

INITIALIZATION

When the installation is concluded and carried out according to the wiring diagram, power up the system and program it by following the "VX800 PROGRAMMING" Flow Chart.

Press Enter (Red LED will be ON)	ENTER "ENGINEER'S CODE"	FIRST TIME SIX TIMES 1 "111111" FACTORY PRESET
Press Enter (Melody)	CONFIRM OR CHANGE "ENGINEER'S CODE"	TYPE AGAIN SIX TIMES "1" OR THE NEW ENGINEER'S CODE 4 TO 8 DIGITS
Press Enter (Melody)	ENTER "ACCESS 1 CODE"	CODE TO ENABLE RELAY 1 4 TO 8 DIGITS
Press Enter (Melody)	ENTER "ACCESS 1 TIME"	TWO DIGITS (01 TO 99) I.E. 05=5 SECONDS 00= REMAIN OPEN
Press Enter (Melody)	ENTER "ACCESS 2 CODE"	CODE TO ENABLE RELAY 2 4 TO 8 DIGITS
Press Enter (Melody)	ENTER "ACCESS 2 TIME"	TWO DIGITS (01 TO 99)
Press Enter (Melody)	ENTER "ACCESS 3 CODE"	ONLY 800-3 VERSION
Press Enter (Melody)	ENTER "ACCESS 3 TIME"	ONLY 800-3 VERSION
Press Enter (Melody)	SYSTEM READY TO USE	RED LED WILL BE OFF

PROGRAMMING(refer also to flow chart)

- Enter "ENGINEER'S CODE": first time six times "1" (111111 factory preset) and press ENTER (The red LED will illuminate).
- Confirm "ENGINEER'S CODE" (typing again the same) or type the new code (4 to 8 digits) then press ENTER (Melody). Pressing twice the ENTER button without changing the "ENGINEER'S CODE", will exit from the programming.
- Enter the code (4 to 8 digits) to enable "RELAY 1" (ACCESS 1) or re-enter the existing code then press ENTER (Melody).
- Enter the "RELAY 1" operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press ENTER (Melody).
- Enter the code (4 to 8 digits) to enable "RELAY 2" (ACCESS 2) or re-enter the existing code then press ENTER (Melody).
- Enter the "RELAY 2" operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press ENTER (Melody).
- Enter the code (4 to 8 digits) to enable "RELAY 3" (ACCESS 3 only for 3 relay models) or re-enter the existing code then press ENTER (Melody).
- Enter the "RELAY 3" (only for 3 relay models) operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press ENTER (Melody).
- The system is ready to use (the red LED will be off).

INSTRUCTION TO RETURN SYSTEM TO PRESET ENGINEER'S FACTORY CODE

- Turn off power to code lock.
- Keep "ENTER" button pressed while turning back on the power to the code lock.
- Release "ENTER" button.
- The master code is now set at factory engineer's code "111111" (six times "1").
- Proceed with programming for a new system.

NOTES

- To switch off any relay while operating, type in the relevant code then press the "CLEAR" button.
- To operate relays together, set the same code for each relay.
- If a wrong code is entered, the system will lock out for 5 seconds which will increase each time a wrong code is entered. The system will operate only when the correct code is entered.

GENERAL DIRECTIONS FOR INSTALLATION

In order to achieve the best results from the schematics described it is necessary to install only original **VIDEX** equipment, strictly keeping to the items indicated on each schematic and follow these General Directions for Installation:

- The system must be installed according to national rules in force, in any case the running of cables of any intercom unit must be carried out separately from the mains;
- All multipair cables should be compliant to CW1308 specification (0.5mm twisted pair telephone cable.
- Cables for speech line and service should have a max resistance of 10Ω
- Lock release wires should be doubled up (Lock release wires and power supply wires should have a max resistance of 3Ω);
- The cable sizes above can be used for distances up to 50m. On distances above 50m the cable sizes should be increased to keep the overall resistance of the cable below the RESISTANCES indicated above;
- Double check the connections before power up;
- Power up the system then check all functions.

LOCK RELEASE BACK EMF PROTECTION

A capacitor must be fitted across the terminals on AC lock release (Fig.1A) and a diode must be fitted across the terminals on a DC lock release (Fig.1B) to suppress back EMF voltages.
Connect the components to the lock releases as shown in figures.

Fig.1A   **Fig.1B**
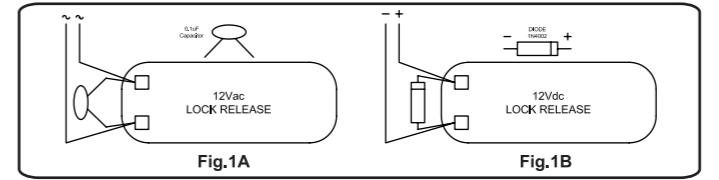
BUZZER BACK EMF

When using intercoms with buzzer call (Art.924/926, SMART1/2, 3101/2, 3001/2 and 3021/2) add one 0,1uF capacitor between terminals 6 and 3.

If help is required for installing or operating this unit please contact our technical department on +39 0734 631669 (all countries) or +44 0191 224 3174 (UK).

RE-PROGRAMMING GUIDE

Press Enter (Red LED will illuminate*)	ENTER THE ENGINEER'S CODE	
Press Enter	RE-ENTER THE ENGINEER'S CODE	ALTERNATIVELY ENTER A NEW ENGINEER'S CODE (4 TO 8 DIGITS)
Press Enter	ENTER ACCESS CODE	RELAY CODE (4-8 DIGITS) OPERATE THE DOOR OR GATE.**
Press Enter	ENTER ACCESS TIME	TWO DIGITS (01-99 Sec OR 00 FOR REMAIN OPEN)
Repeat steps for relay 2 and 3	More DOORS ? YES NO	
	PRESS ENTER TWICE TO EXIT PROGRAMMING	RED LED will switch OFF
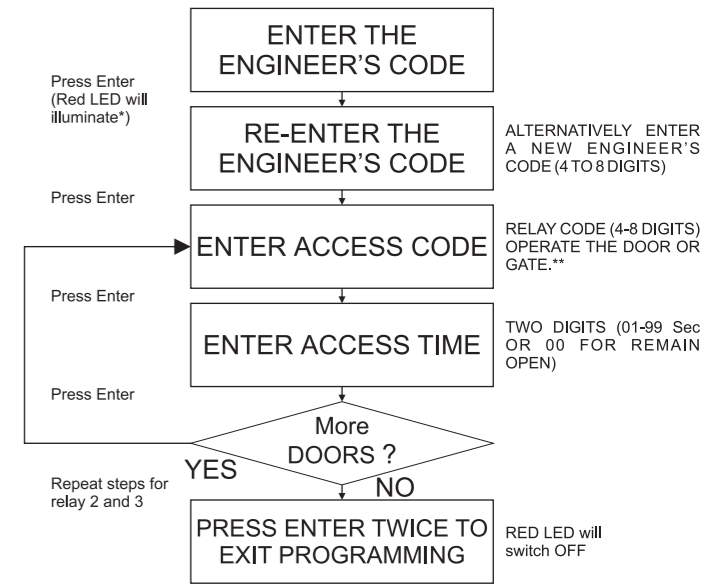
Notes:
* If the red light does not illuminate, the engineer's code is incorrect. Follow instructions to return system to preset engineer's factory code.
** On the first loop of the flow chart its relay 1, second loop is relay 2 and the third loop is relay 3.

Relay Number	Engineer's Code	Relay Time
1		
3		
2		

Panel 1 (VX800):

LAMP
POWER 24Vac/dc 5A max
SE 12V~
Door Open Button
Lamp Button
1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 SW2 SW1
VX800N- 4
VX800N F
VX800N S
FUSE ART.522 ART.321
230V~ 0
230 ~ 50/60 Hz

LAMP
POWER 24Vac/dc 5A max
GATE
POWER 24Vac/dc 5Amax
SE 12V~
1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 C3 NO3
VX800N- 3
FUSE ART.522 ART.321
230V~ 0
230 ~ 50/60 Hz

Panel 2 (VX800-837):

Art.924
3 2 1 5
4 6 1 3 5 8 9
2

Art.924
1

6 6₃ C
24V
Art.845..

~ 2 ~ 1 3 4 X P₂ P₁ C
Art.837-2..

ART.520M
+12 ~
230V~

1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 SW2 SW1
VX800N- 2 4
VX800N F
VX800N S
SE 12V~

Panel 3 (VX800-835M):

Art.3131-3141
3 1₃

Art.3131-3141

C
Art.834N
24V
Art.845..

1₄
1₅
1₆
1₇

BALANCE

D D ~ ~ S 3 P₂ P₁ C C
Art.835M-2..

Art.522 Art.322
0
230 Vac

SE 12V~

1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 SW2 SW1
VX800N- 2 4
VX800N F
VX800N S

Panel 4 (VX800-837M):

Art.3111
3 2 1 4₂
1

4₄ 4₃ C
24V
Art.845..

2 + 1 S₁ S 5A C C
Art.837M-2..

ART.520M
230V +12 ~

SE 12V~

1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 SW2 SW1
VX800N- 2 4
VX800N F
VX800N S

Panel 5 (VX800RS):

FAIL SAFE DC LOCK
ART.521
230V~ 0
12Vdc P.S.U.
1N4002
12Vdc
PUSH TO EXIT
FAIL SAFE LOCK RELEASE
1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 SW2 SW1
VX800N- 2 4
VX800N F
VX800N S

FAIL SECURE AC LOCK
100uF
12Vac
PUSH TO EXIT
FAIL SECURE LOCK RELEASE
ART.321
12Vac P.S.U.
1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 SW2 SW1
VX800N- 2 4
VX800N F
VX800N S

ELECTRIC GATES
VOLT FREE CONTACTS
PUSH TO EXIT
ART.321
12-24Vac/dc Input
1 2 3 4 5 6 7 8 9 10
12+24 Vac/dc C1 NO1 NC1 C2 NO2 NC2 SW2 SW1
VX800N- 2 4
VX800N F
VX800N S

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