Multi-Scan IV Controller

MSC04YYX00 MSC04YYX01

THE ULTIMATE IN STAND-ALONE 4 DOOR ACCESS CONTROL SYSTEM

Multi-Scan IV Controller

The system is ideal for sites such as parking garages, apartment block entrances, small to medium office and factory complexes, as the unit controls up to four doors or access points. The Multi-Scan IV is fully compatible with Impro's passive proximity tags. Terminals have optional PIN keypads. A Pin-Scan Tag can also be used to enter a PIN code. The Multi-Scan IV Controller can be multidropped using RS485 and linked to a host PC to aid in editing the tag and parameter data base, as well as extracting transaction and event information. It can also be operated in stand-alone mode without interfacing to a PC. Stand-Alone mode allows simple keypad modification of the tag database and parameter information. Each controller is designed to control up to four doors, either in single door mode or in anti-pass back mode and up to 16 controllers can be multidropped on a single twisted pair cable. The Multi-Scan IV Controller has various levels of access to each tag - allowing or denying access to certain tagholders through specific doors at predetermined times.

Features

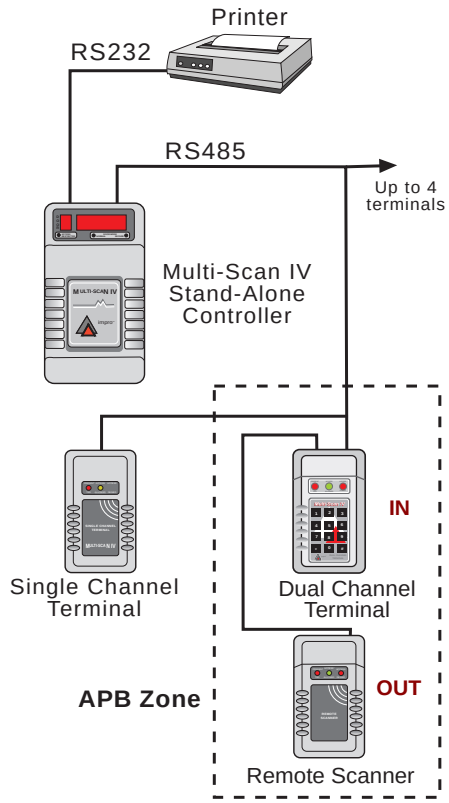
- Up to 4 Terminals in full anti-passback mode can be supported by each Controller.
- Up to 16 Controllers may be multidropped to one host PC.
- Supports up to 2000 tags holders, each with individual door allocations.
- Mix and match Single Channel and Dual Channel Terminals
- Supports full range of Impro's Remote Scanners.
- A unique 4 digit PIN code can be allocated to a tag.
- Full Windows application software suite is available (MSP01GB).
- Multi-Scan IV Controller with PCB Revision 4 is now user configurable to RS232 for connection to a serial printer or RS485 to PC
- Full stand-alone capability with printer output.
- Internal Transaction Memory allows up to 6000 transactions to be buffered
- Power Control Relay allows energy saving when all tag holders are out of the APB zone
- On board keypad, LED display and scanner for editing purposes.
- Real-time clock allows
  a) timed access control for each door
  b) all transactions are date and time stamped
- A start and expiry date can be allocated to a tag.
- Each tag is allocated either visitor, normal, privileged or master status.
- Alarm Relay called by:
  a) 2 x General Purpose contact inputs
  b) Operation of anti-tamper switch
  c) Any terminal reporting door open alarm
  d) Any terminal reporting anti-tamper alarm
- Door open sensors and push-button exit request inputs supported on each terminal.
- Each terminal has its own normal working hours.
- Both master tag and password allow the altering of the system parameters.
- The controller allows individual tags to be fully edited.

Specifications

Processor:	16 MHz 80C51 CPU.
Real Time Clock:	Deviation: ± 1 minute maximum per month @ 25°C (+77°F)
Transactions:	Up to 6000 transactions are stored in nonvolatile memory (battery backed)
Power Requirements:	Internally fused 12 V to 16 V DC or 10 V to 14 V AC @ 500 mA maximum
Fused outputs:	4 power outputs (for terminals) with common 5 A fuse (rated according to your load and power supply)
Size:	L = 220 mm, B = 120 mm, H = 50 mm
Alarm Inputs:	2 x Dry contact inputs, protected to ±80 V transients and ± 20 V continuous
Relay Outputs:	2 x Integrated SPDT 30 V DC / 250 V AC @ 1,5 A
RS485 Port:	Link between Multi-Scan IV Controller and Multi-Scan IV Terminals @ 19 200 baud, 8 bit, no parity and 1 stop bit.
Selectable RS485: OR	RS485 connection to computer @ 9600 baud, 8 bit, no parity and 1 stop bit.
RS232 Port:	RS232 connection to serial printer @ 9 600 baud, 8 bit, no parity and 1 stop bit.
Tag types:	Both Slim- and standard tags can be used in the system.
Scan Channel:	Single channel for database editing
Barcode:	Single channel for barcode editing
Display:	5 digit seven segment LED display plus 20 x LEDs for programming purposes and status
Keyboard:	3 x 4 tactile keyboard with dual functions. For programming purposes
Reading Distance:	The distance between the passive tag and reader is approximately 40 mm from the coil (in front of the cabinet) but depends on the type of tag used. Card / ID type tags read slightly further than the button type.
Environmental:	Temperature Range: -10°C to 70°C Humidity Range: 0 - 95% non condensing
Positioning:	The unit may be mounted on any material even metal with no effect on performance. Screw holes are provided in reader base.
Coil Frequency:	281 250 Hz or 125 000 Hz
Anti-tamper Switch:	Integrated into cabinet and connected to CPU board
Buzzer:	Piezoelectric buzzer
Standards:	Conforms to CE Standards.

MSC04GBx01:	Bar Code Option for Controller.

MULTI-SCAN IV STAND-ALONE MODE



MULTI-SCAN IV INSTALLATION DIAGRAM USING PC SOFTWARE