

Checkmate XT

Intelligent Access Controller



New !!
DVR Integration
with Access Control



Checkmate XT

Checkmate XT is a networkable, intelligent, industry standard Access Control Panel. Designed for use in Building Management System (BMS) applications, Checkmate XT provides a cost effective solution for Time & Attendance, Access Control & Supervisory Control for Fire & Security Panels. Each Checkmate XT can monitor & control upto 4 Reader which control upto 4 doors Entry (Exit with Push Switch) or 2 Doors Entry and Exit or mixed configuration. The Reader & Lock are connected to the Checkmate XT in star connection. Hence no intelligent hardware is required at door end.

Checkmate XT provides a user configurable intelligent Engine for taking care of any organization's access control needs and is configured using a software, COMPRO XP. All the Access Control decisions are taken by the controller making it truly a standalone system independent of PC. Multiple Checkmate XT's can be networked on a RS485 bus or on a Ethernet Network with suitable hardware for larger applications.

Card Reader Technology

Finger Print Reader

Finger Print Reader works on Biometric Technology. Upto 2 fingers can be enrolled on Contactless Smart Card. The Finger Print Reader integrated with Contactless Smart Card Reader is used as front end reader at the door. Upon card show, the reader transmits the ID code for access validation to Checkmate XT. If the card holder is found valid, finger template is read from Smart Card and is authenticated with the live finger.

Contactless Smart Card Reader :

Contactless Smart card Reader works on 13.56 MHz RF based on MIFARE technology. It is useful where Multi-application for employee card is envisaged. MicroSMART, compliant to ISO 14443 Protocol, can be used (Read Range 3").

Proximity Card Reader (RF ID) :

Proximity Reader is based on 125 KHz RF technology and reads the Proximity cards on show within read range. The Entry level MicroPROX reader has a read range of 3".

Cards :

Proximity cards/Smart cards compatible to respective readers need to be used. The size of the Card is as per ISO Standard i.e. 85 X 54 mm.

Hardware Features

4 Reader Interface

Panel supports 4 Weigand Reader interface. The Reader type supported is Proximity, Smart Card or Finger Print reader. Readers can individually be upto 100 m cable distance from the Controller.

4 Relay Output for Lock Operation

The relay outputs are available for Lock Release, & are tagged to one or more Reader for door operation as per requirement. 12V wetted contact can be provided from the built-in Power Supply for Lock operation.

4 Exit Push Switch Input

There is a provision for 4 Exit Push Switches & is paired with the lock, it is going to release. The switch is normal Push Button offering momentary contact. The lock is operated upon usage for Lock On-Time.

4 Door Open Sensor Input

For monitoring the status of the Door (i.e. Open or Close), Door Open Sensor input is used. The Door open sensor input is paired with a lock. It is useful for Turnstile operation for locking it upon rotation feedback.

4 General Purpose Input (GPI)

There is a provision for Potential free contact inputs, which can be input from Fire/Intruder Alarm panel & can be programmed to make the Controller Fail Safe /Fail Secure, in emergency situation.

4 General Purpose Output (GPO)

The General purpose outputs are available for Alarm annunciation in case of emergencies. The GPO's are paired with GPI's Potential free contact may be optionally provided.

Built-in Lock Power Supply

A Bulk 12V Power Supply is centrally connected to the controller to power the locks thereby removing the necessity for power supplies near lock. Optionally, UPS with battery may be provided.

Cabling

6 core multi strand (each core 14/36) shielded cable for Reader is used. One Pair each of electrical multi strand cable (each core 1.5 sq mm) is used for Lock operation, Door Open Sensor and Exit Switch. These cables run from each Door to Controller. Cable length should be within 100 m.

Access Control Features

ACCESS GROUP : 4 Access Groups may be defined. Each Access Group are associated with one or more locks. One or more Readers/Exit switches are linked to a lock in an Access Group.

ATTENDANCE GROUP : Attendance Group is used for recording Employee Attendance and accepts all cards at all time. These data are later used for Attendance Report generation.

GROUP ANTIPASS BACK : Enable / Disable for each Access Group.

Hard Antipassback : No exit w/o valid Entry violation alarm. **Soft Antipassback :** Exit w/o Valid Entry with violation alarm.

TIME ZONE : 4 user definable Time zones per Access Group. The Time Zones could be Enabled/Disabled for Holiday/Weekly off. "ALLOW ALL" Time Zone is possible for rush hours.

CARD HOLDER DATABASE : Each Access Group has its own set of Card Holders linked to one or more Time Zones for the Group. Card holder can be member of Multiple Access Groups. Upto 2000 IDs over all the Access Groups.

VISITOR DATABASE : A visitor based on entry from the Central Computer would have access defined based on the Access Group. The Access rights can be withdrawn upon visitor leaving. Upto 100 visitor ID database may be defined.

HOLIDAY DATABASE TABLE : 30 Holiday Dates & a Weekly off Day can be defined for barring Access. Upto 100 card holders can be provided access irrespective of Holidays based on their default Access Groups & Time Zones.

HOLIDAY MASTER CARD : For Card holders not included in Holiday Database Table, requiring entry on holiday/weekly off in their Time Zone, Master Card needs to be shown before the Card Holders card. Upto 5 Holiday master cards per Access Group may be defined.

DOOR OPEN TO LONG (DOTL) : If the Door open sensor input is ON for a period longer than the Lock on - time, Alarm is raised & recorded. This may be used for on-line monitoring of doors on Central Monitoring Computer.

LOCK ON-TIME : Lock on-time for door opening after Card Show is User Settable. The Lock shuts after this time. This can be used with Door open Sensor for exception monitoring.

EMERGENCY OPERATION : All Doors are opened based on Fire Alarm /closed in case of Burglar Alarm Panel Input. Resetting of Alarms results in normal operation. All alarms are logged for analysis.

ACCESS RIGHTS EMERGENCY OPERATION : Card Holders can be temporarily Enabled/disabled from the Card Holder Table in the Controller. This feature is useful in case of ID card loss.

EMERGENCY LOCK OPEN : Central Computer can open a lock remotely with authorization. All such events are logged.



Checkmate XL

Single Door Access & Attendance System

Checkmate XL is a Panel suitable for Single Door Access Control requirement where both ENTRY/EXIT need to be controlled. It has 2 Reader Interface with 2 Relay output. It can also be used for Access Control for two doors provided only ENTRY need to be controlled (EXIT is using ReX, Request-to-eXit switch).

It is ideally suited for decentralized Access Control requirement where individual controller is required to control a door. There is no dependency of multiple doors being controlled by one controller. All the other Access Control features of **Checkmate XL** is same as **Checkmate XT**.

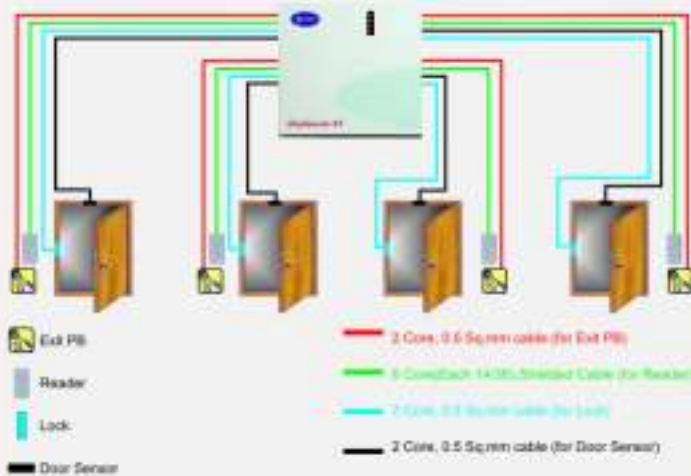
COMPUTER CONNECTIVITY

Computer can be connected to a single Controller within 15 m using RS232, or multiple controllers thru' RS485 upto 1.2 Km in bus topology or thru' a add-on Ethernet interface for plugging into the TCP/IP network. Dial-up support for monitoring panels at remote locations thru dial-up MODEM is also possible. Refer to the System Configuration Diagram for understanding.

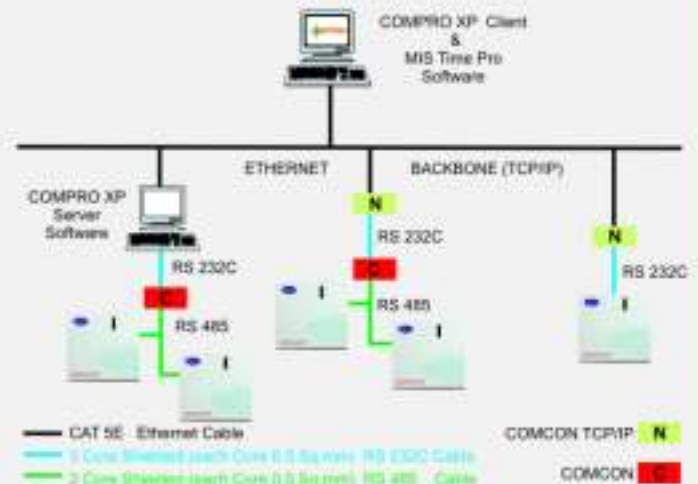
COMPRO XP : Configuration, Data Capture & Report Generation Software

Compro XP is WINDOWS based system software. It configures **Checkmate XT** to the user's requirement also captures the transaction data and generates reports for First In Last Out, Movement Report, Access Reports for Access Groups, Visitor IN-OUT reports etc.. **COMPRO XP** can capture data in a continuous manner in on-line mode or in a Batch-mode i.e. collecting the data from the controller manually. Data is available in tables for user to create his own reports or to link to their HR/Attendance/Payroll package. It can be used with **MIS Time Pro** software also.

TYPICAL INSTALLATION LINE DIAGRAM



SYSTEM CONFIGURATION DIAGRAM



TECHNICAL INFORMATION

CPU : High Performance 16 bit Microcontroller
Memory : 12500 Transaction Data Storage with ID #, Date, Time and Access Information, Separate table for Event Storage
Battery Back-up : Retention of Clock & Data under power-off
Communication : RS232C or RS485 (Isolated)
 (Ethernet or Modem Connectivity using additional hardware)
Data Upload Speed : 1000 Records/Minute (9600BPS)
CPU Power : Wide Range SMPS (170V to 280V @ 50Hz +/- 5Hz, 5W)
Lock Power : Built-in 12V, 2 Amp Power Supply for Locks
UPS with Battery : Optionally available with 4 hours back-up time
Card Reader Interface : 4 Reader 26 bit Weigand Interface
Relay Output : 4 Potential Free/12V Wet Contact O/P for Locks
Exit Switch : 4 Exit Switch Input Interface
Lock Feedback : 4 Door Open Sensor Interface for Lock Feedback
General Purpose Input/Output : 4 GPI and 4 GPO (TTL Level)
Dimension : 278(H) X 297(W) X 70(D) mm
Enclosure : Dust Resistant, Corrosion Free MS Casing
Colour : Powder Coated Metallic Silver Colour
Operating Temperature : 0-55 Degree Centigrade

ORDERING INFORMATION

Checkmate XT : Access Controller with 4 Reader I/F, 4 Relay Output
Checkmate XL : Access Controller with 2 Reader I/F, 2 Relay Output
UPS with Battery : UPS with battery for 4 hours back-up time
MiniProx/Prox Point Plus : HID-Proximity Card Reader
MicroPROX : Proximity Card Reader with Read Range upto 3"
MicroSMART : Contactless Smart Card Reader (Read Range upto 3")
MicroTIP : Integrated Finger Print and Contactless Smart card Reader
DVR XT : PC based 4 Channel DVR Card
DVR XP : PC based 8 Channel DVR Card
COMCON : RS232C to RS485 Converter
COMCON TCP/IP : RS232C to Ethernet Converter on TCP/IP Protocol
DVR XS Online : Online Access Control Software with DVR Integration
COMPRO XP : Configuration, Data Capture and Reporting Software
MIS Time Pro LITE : Time Office Management Software
MIS Time Pro Enterprise : Time Office Management Software for Factory
eTIME Pro : Web based Time Office Management Software
ID Card : (a) Proximity Card (b) Contactless Smart Card (1K/4K)
Door Lock : (a) Strike (b) EM Lock (c) Turnstile (d) Drop bolt (e) Boom
Cable : (a) Reader Cable (b) Communication cable (c) Lock Cable
Accessories : (a) Exit Switch (b) Door Sensor

* Specifications are subject to change without notice.

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