# PASSPOINT™

# DCM
## Door Control Module

## The Door Control Module (DCM)



**T**he Door Control Module (DCM) provides all the inputs and outputs required to manage up to two single-reader access points or "one" double reader access point and can simultaneously accept card data from two card readers.  The DCM also provides two Form C, supervised output relays, which can be used to operate electromagnetic door locks or door jamb mounted lock strikes, and two trigger outputs that can be used to operate sounders or LED's.
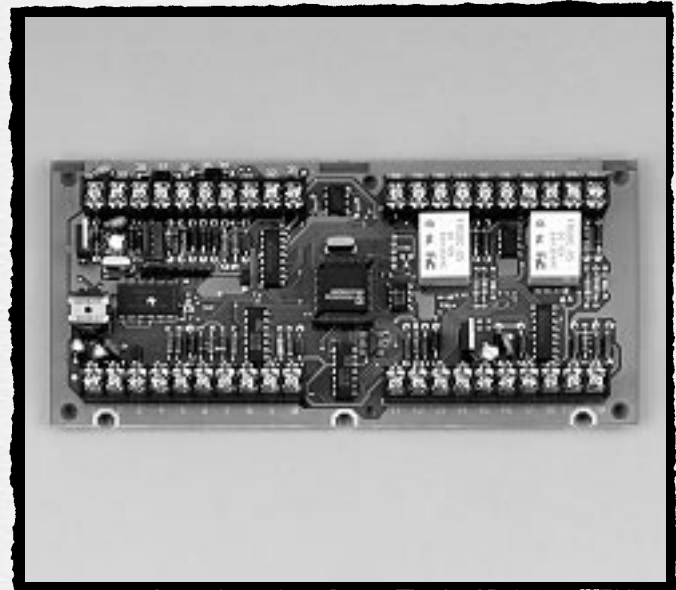
### *ADEMCO Access Control System, DCM Door Control Module.*

### Key Features:
- ◆ 8 bit microprocessor.
- ◆ EEPROM for DCM configuration storage.
- ◆ Echelon Network interface implemented with an Echelon transceiver.
- ◆ 4 Three State (Open/Short/EOLR) Protection Zones.
- ◆ 2 Form C supervised relays, rated at 5A resistive load @ 28VDC/125VAC.  The supervision input indicates that voltage is present when the common point of relay has greater than 8.5 VDC.  Relays are accompanied by an LED which is illuminated when a relay is energized.

- ◆ 2 Reader interfaces, each individually programmable as Wiegand or clock & data mode. Both 12 volts DC and 5 volts DC is available to power the readers.
- ◆ 2 Open collector trigger outputs (15mA, 15 VDC maximum).
- ◆ Power supply monitor inputs for AC loss and low battery detection.
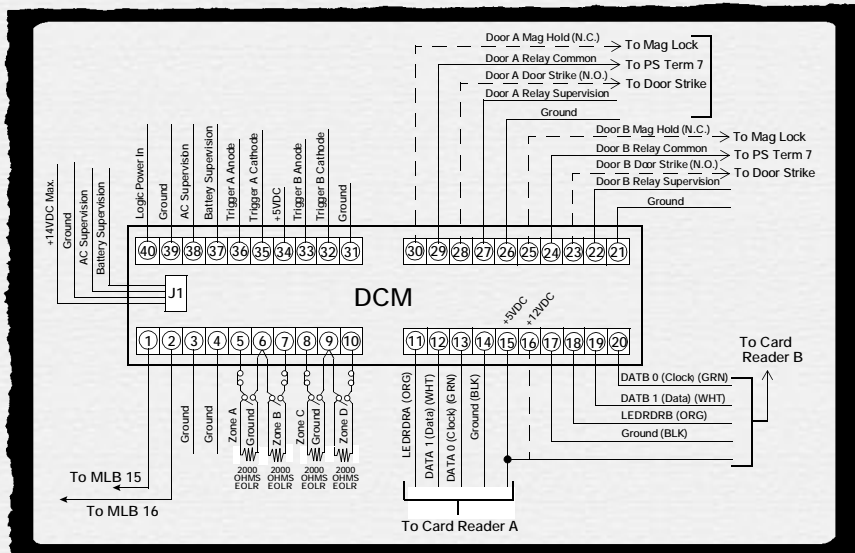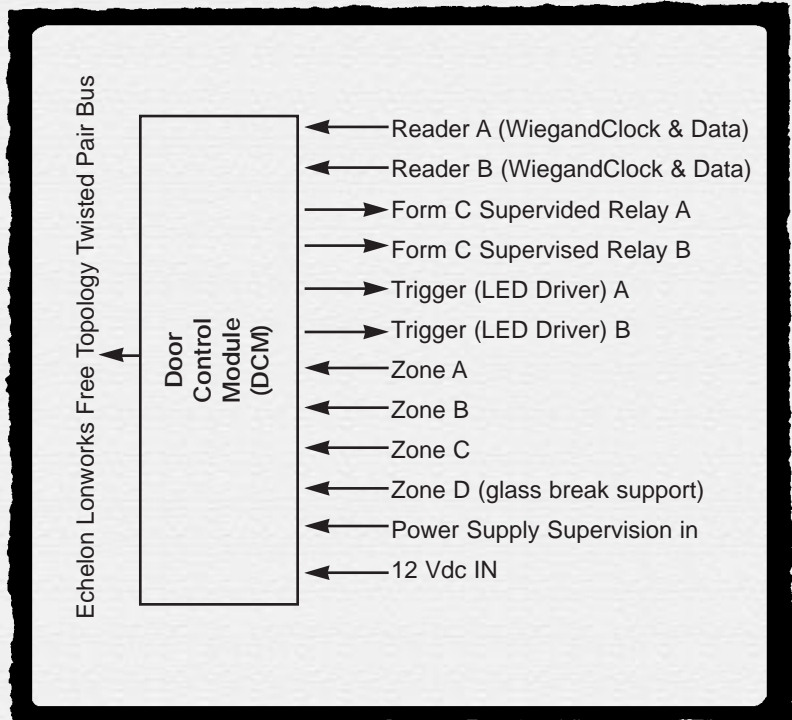- ◆ All terminal blocks accept push-on terminal strips.

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## APPLICATIONS:

Once the appropriate configuration information has been transferred from the MLB to the DCM, the DCM monitors readers, zones, relays, and triggers. It keeps a copy of its configuration in an on board EEPROM. "Uncommitted resources" are resources that are not part of an access point; these will be under the direct control of the MLB. "Committed resources" are resources that are part of an access point; these are primarily controlled by the DCM and are managed as a cohesive group, collectively providing the "Auto Door Control" functionality of the access point.

## INSTALLATION:

The DCM communicates with its MLB via a twisted pair network connection. Physically, this connection adheres to Echelon Free-Topology Transceiver specifications. Logically, the connection is made through the use of the Echelon LonWorks Protocol. Each DCM connected to the network is identified by a unique 48-bit serial number that is present in the DCM's Neuron chip.



Door Control Module (DCM) — Echelon Lonworks Free Topology Twisted Pair Bus

- Reader A (WiegandClock & Data)
- Reader B (WiegandClock & Data)
- Form C Supervided Relay A
- Form C Supervised Relay B
- Trigger (LED Driver) A
- Trigger (LED Driver) B
- Zone A
- Zone B
- Zone C
- Zone D (glass break support)
- Power Supply Supervision in
- 12 Vdc IN



## SPECIFICATIONS:

The DCM obtains its power from the LOCAL power output connection of its associated Access Control System Power Supply when mounted in a cabinet with a dedicated ACS PS. When mounted in a cabinet along with an MLB, it obtains its power from the ACS PS REMOTE power output. The DCM board requires 10.5-14V DC @ 170mA, but its actual current requirement will be determined by the addition of the current requirements of two card readers (or keypads), which are typically 90mA each.

The DCM also provides two power supply monitoring inputs, one for low battery and the other for AC loss. These two inputs are compatible with the corresponding monitoring outputs of the Access Control System Power Supply.

## Ordering Information:

| Part No. | Description |
|----------|-------------|
| PTDCM | Door Control Module |

## ADEMCO GROUP
COMMERCIAL SYSTEMS DIVISION