

CEM Legic Technology

AC2000 with PHG reader range



Features that make a difference:

- AES (Advanced Encryption Standard) card verification
- Unique Legic Master-Token system using special 'genetic' code to link cards and readers
- Secure RS485 serial encrypted communications between Legic reader & DCM350 controller range
- Cost effective solution which combats against the threats of card cloning and Wiegand signal sniffing.
- Three on-board LED indicators to visually confirm/deny entry
- Built-in tamper protection and sounder
- Suitable for indoor or outdoor applications

The CEM Legic is a cost effective solution based on PHG contactless smart card readers with powerful security and encryption features.

The CEM Legic solution utilises the unique Legic Master-Token system by using a special 'genetic' code to securely link cards and readers, and which is transferred to the identification media during initialisation and to the reader during configuration.

Security is linked to a special, physical smart card and the owner of a Master-Token has the independence of having control and ownership of their security system, applications and cards.

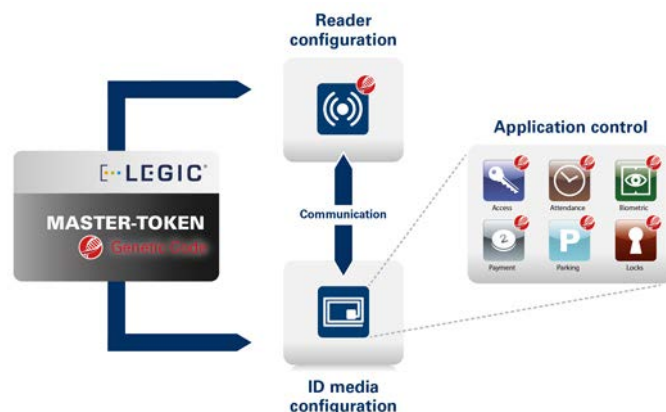
PHG readers utilize AES (Advanced Encryption Standard) encryption and highly secure Legic technology. They are connected to the CEM eDCM350 two-door controller, with encrypted RS485 serial communications between the PHG reader and the controller.

Combined as one solution, the PHG reader and eDCM350 controller range offers a solution- which combats against the threats of card cloning and Wiegand controller signal cloning.

The PHG readers are enclosed in durable and easy to install units, ideal for both indoor and outdoor installations. For an extra layer of security the PHG readers are also available with keypad option which supports Card & PIN transactions (two factor authentication).

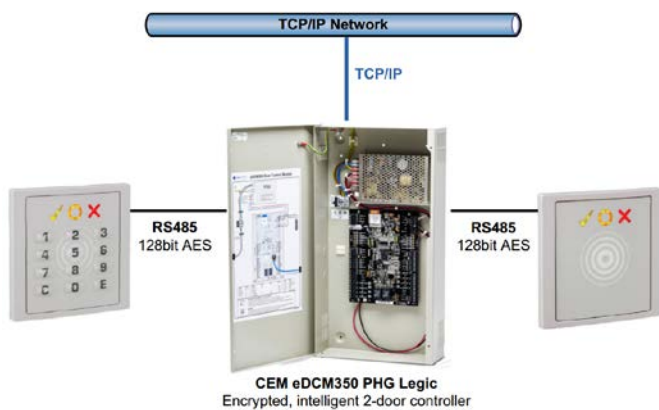
PHG readers feature AES card verification and RS485 encrypted serial data communications to the eDCM350 controller. Both of these features are essential to protect against developments in card cloning and Wiegand controller signal cloning.

Card cloning is the interception and replay of electronic communications from the card to the reader and Wiegand controller signal cloning is the recording or 'sniffing' of the pulses, (wired or wireless) between a card reader and its control panel.



Ease of installation

PHG Legic readers connect to CEM eDCM350 Intelligent 2-door Controller via a highly secure, encrypted RS485 link. Readers can be connected either in Master / Master or Master / Exit operation modes. The CEM PHG Legic solution is designed for simple installation. One cable delivers power and encrypted communications to the reader for ease of installation. Reader designed for flush or hollow wall mounting, meets DIN requirements and has a distance of 60 mm between the screws



Specifications*

Size	81 x 81 x 21 mm
Housing	Plastic
Colour	RAL7035 or RAL7011
Keypad (11322)	Membrane keyboard (12-key)
Power Supply	8-30V DC with internal polarity reversal protection
Power Consumption	Max. 250mA @ 12V
Temperature	
Storage	-30°C to +70°C
Operation	-25°C to +60°C
Protection class	Max. IP54
Indoor/Outdoor	Both
Indicators	3 LED, green, yellow, red 1 piezo buzzer
Security	Supports 128bit AES (Advanced Encryption Standard) keys, communication encrypted between reader and controller

**Please see CEM eDCM350 Datasheet for further information*

Card Transmit Frequency	13.56 MHz
Card Technology	Legic ISO 14443A UID/CSN Legic ISO 15693
Output format	Encrypted RS485 to Host Controller
Termination	Pluggable female headers 4-pin
Read Range	Variable, depending on transponder and media, tested with: Legic Prime Cards: up to 8.2cm (3.25inch) Legic Advant Cards: up to 10.7cm (4.25inch)

Requirements

- AC2000 v6.9 software and upwards
- AC2000 Lite v6.9 software and upwards
- AC2000 Airport v6.9 software and upwards

Ordering Information

Product Code	Description
DCM/352/101	eDCM350 PHG Encrypted 2-door controller for PHG Legic readers
HDS/124/000	PHG Voxio E-1240-A Legic reader without PIN
HDS/124/001	PHG Voxio E-1240-A Legic reader with PIN
HDS/125/000	SIEDLE-A-1200 Advant reader
HDS/125/001	SIEDLE-A-1200 Advant reader with PIN

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