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**PACOM**  
**8707**  
**Display**  
**Reader**



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## PACOM 8707 Display Reader



## Specifications

Type Code	8707R-001
Supply Voltage	10-30VDC
Power Consumption (Typ.)	55mA@24VDC
Power Consumption (Max.)	100mA@24VDC
Reading distance (Typ.)	30mm
Keyboard Type	16 keys, backlit. Tactile indication on key 5.
Ingress Protection Rating	IP54 (with mounting plate)
Dimensions	(W x H x D) 74 x 134 x 31 mm

Weight	240 g
Operating Environment	-40 to +60°C
Colour	Black
Connection	4+6 way screw terminal block

## Product Usage Instructions

### Installation and Setup

1. Ensure power supply matches the specified voltage requirement.
2. Connect the reader to the appropriate interface based on the communication protocol being used (RS485, Wiegand, OSDP).
3. Follow the wiring diagram for the proper connection of cables.

### Configuration

1. Set up RS-485 addressing and termination as per the provided guidelines.
2. Configure the supported card formats in the system settings.

### Firmware Update and Key Exchange

1. Enable OSDP Secure Channel for encrypted communication.
2. Perform firmware updates and key exchanges as needed by following the system-specific procedures.

## INDICATIONS

Display	OLED B/W 128×64 px
Optical Indication	1 LED, multi-color
Acoustical Indicator	Built-in buzzer

## Supported Card Formats

- 13,56Mhz Mifare Classic
- Mifare Plus, DESFire EV1 + EV2

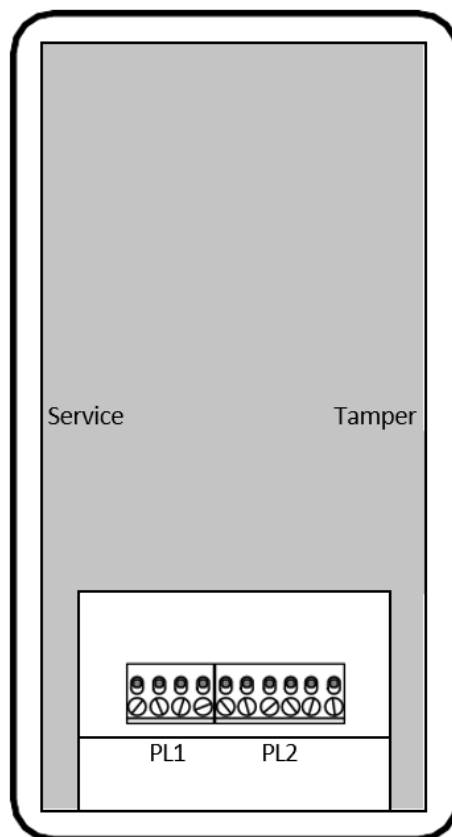
## Signalling

Interface	RS485, Wiegand
Communication	OSDP 2
Card Formats	26, 32, 34, 56 bits
Tamper	Yes

## Cable Recommendation

RS485: Data cable shielded twisted pair 2x2x0.5 mm<sup>2</sup> (e.g. Belden 3107A) Wiegand:

Data cable shielded 8x1x0.25 mm<sup>2</sup> (e.g. Belden 9538)



## Wiring

PL1	Description
-----	-------------

1	RS485 +
2	RS485 –
3	10-30VDC
4	0V

PL2	Description
1	Wiegand D0
2	Wiegand D1
3	Green LED
4	Red LED
5	Buzzer
6	Signal Ground

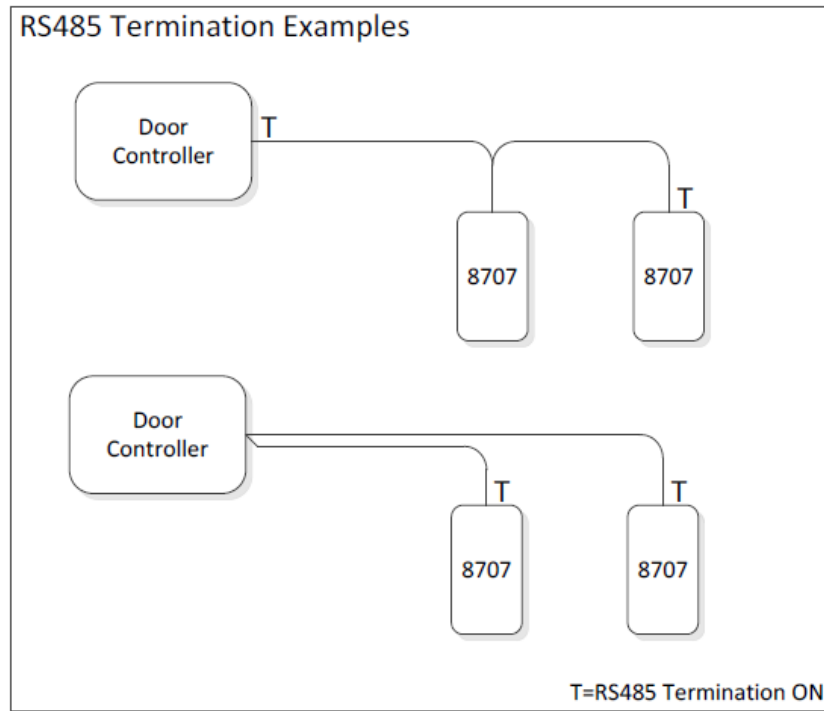
## SETUP

- Basic reader configuration is done through the setup menu.
- To enter the setup menu, make sure that 1) the reader is powered up, and 2) the reader tamper switch is active.
- Press and hold the Service button on the back of the reader for 5 seconds to bring up the “Enter Setup?” prompt. Confirm by pressing the ✓ key to enter the setup menu.
- The contents of the setup menu may vary depending on reader firmware, but for most common installation scenarios with a single reader using OSDP communication, the default settings do not have to be changed.
- To save the settings, press the ✓ key while in the main menu.

## RS-485 Addressing and Termination

Up to four readers can be used at the same time on the RS-485 bus. If more than one

reader is used, please make sure that each reader on the bus has its unique address (1-4), and that the RS-485 termination is set up correctly. RS-485 termination must be ON (Active) on the last device at each end of the bus. For a single reader connected to a Door Controller, RS-485 termination should be ON for both the Door Controller and the Reader. For other connection scenarios, make sure that the device at each end of the bus has termination ON to ensure communication is working properly.



## OSDP SECURE CHANNEL – MIFARE CARD ENCRYPTION KEYS & FIRMWARE

- If OSDP Secure Channel is enabled, a set of encryption keys are exchanged between the Door Controller and the Pacom 8707 Reader. Once the encryption keys have been exchanged, the Door Controller and the Pacom 8707 Reader are paired, and are thereafter only able to communicate with each other.
- If a Pacom 8707 Reader is to be moved to a different Door Controller once OSDP Secure Channel is enabled, it needs to be reset to factory default and the Secure Channel Base Key (SCBK) cleared. It can then be paired again with a different Door.
- Controller (refer to system system-specific procedure on how to perform the pairing operation).
- Depending on the type of Door Controller and Management System used, the Pacom 8707 Reader is capable of download of MIFARE Card Encryption Keys as well as new firmware.
- Please contact Pacom Support for more information on which systems support these options.

## FAQs


**Q: How do I reset the Pacom 8707 Reader to factory default?**

A: To reset to factory default, clear the Secure Channel Base Key (SCBK) and follow the system-specific procedure for pairing with a different Door Controller.

**Q: Can the Pacom 8707 Reader be used outdoors?**

A: No, the reader is designed for indoor use only to ensure optimal performance and longevity.

## Documents / Resources

	<p><a href="#">PACOM 8707 Display Reader</a> [pdf] Installation Guide</p> <p>8707 Display Reader, 8707, Display Reader, Reader</p>
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## References

- [User Manual](#)

## Related Posts



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