



# Symmetry™ 800 Card Readers

*Cutting-Edge Readers for  
the Latest Card Technologies*

[www.amag.com](http://www.amag.com)

## Product Overview

The Symmetry Series 800 range of readers includes proximity, smart card and fingerprint readers compatible with the multiNODE range of controllers and the latest card technologies. All readers are easy to install and are available in a number of attractive designs.

Series 800 readers are the perfect choice for installation professionals who require total system security. Unlike traditional Wiegand interface readers, which are susceptible to undetected tampering, Series 800 readers use bi-directional pseudo-random supervised communications. This enables alarms to be generated if the reader or cable is tampered with or communication is lost.

The Series 800 range includes the Symmetry S844, which reads contactless FIPS 201 PIV smart cards. The Symmetry S844 is designed to comply government standards and is on the GSA FIPS 201 Approved Products List.

The Symmetry S843, S844 and S853 readers are compatible with Philips® MIFARE® DESfire smart cards, which could be used not only for access control, but also for applications such as identity checking, cash-less vending and government applications.

Series 800 readers can be sited long distances from their control units, making them the ideal choice for installers who require installation flexibility.

## Key Features

- Easy to install, with standard mountings
- Wallswitch, micro footprint and keypad versions
- Support for HID®, Philips® MIFARE DESfire, Texas Instruments™, PIV and CAG-NG custom card formats
- Supervised communications for tamper monitoring
- Support for Common Access Cards (CACs)
- Compatible with other Symmetry hardware and software
- LCD models give text-based user feedback and instructions
- Integral buzzer for door-held alarm
- Able to be located up to 3000ft (1Km) from controller if powered locally (or 900ft/300m if powered by controller)



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## Reader Model Options

READER MODEL	Proximity Reader	Contactless Smart Card Reader	Contact Smart Card Reader	Fingerprint Reader	Keypad	LCD Display	Wallswitch Reader	Micro Footprint (Mullion) Reader	Reads Philips® Mifare® Cards	Reads Philips® Mifare® DESFire Cards	Reads Texas Instruments™ (15693) Cards	Reads HID® Cards	Programmable LEDs <sup>1</sup>	Indoor and Outdoor Use	Tamper Switch	Lifetime Warranty	Color Variants	GSA FIPS201 APL
813 <sup>3</sup>		✓		✓	✓	✓			✓	✓					✓			
820	✓						✓					✓		✓		✓	✓	
821 <sup>4</sup>		✓					✓		✓ <sup>5</sup>		✓			✓		✓	✓	
830	✓							✓				✓		✓		✓	✓	
831 <sup>4</sup>		✓					✓	✓	✓ <sup>5</sup>		✓			✓		✓		
840	✓				✓							✓	✓	✓ <sup>2</sup>	✓			
841		✓			✓	✓			✓ <sup>5</sup>	✓	✓			✓ <sup>2</sup>	✓			
843		✓			✓	✓			✓	✓				✓ <sup>2</sup>	✓			
844		✓			✓	✓			✓	✓				✓ <sup>2</sup>	✓			✓
853		✓	✓		✓	✓			✓	✓				✓ <sup>2</sup>	✓			

<sup>1</sup> For use with card commands; <sup>2</sup> Requires optional weather/heater kit for outside use; <sup>3</sup> Fingerprint enrolment reader also available; <sup>4</sup> Smart card encoder also available, model S821-TI232E; <sup>5</sup> Able to read only the unique card serial number from this type of card.



Wallswitch readers:  
Symmetry 820 - Proximity reader  
Symmetry 821  
- Contactless smart card readers



Symmetry 830 and  
Symmetry 831 - Micro  
Footprint readers



Symmetry 841 and Symmetry 843  
- Contactless smart card readers  
with keypad and LCD



Symmetry 813  
- Fingerprint reader



Symmetry 840  
- Proximity reader



Symmetry 853  
- Combined Contact and  
Contactless CAC reader with  
Keypad and LCD

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