



Product Data Sheet

Model 430/435

Overview

The Model 430 and 435 Magnetic Stripe Readers are rugged, reliable, and easy to install. Model 430 is a magnetic stripe technology reader that can emulate the operation of an IBM 5029 reader, allowing for communication with older microcontrollers. Simply set a jumper to select 5029 emulation mode.

Model 435 incorporates a keypad into a magnetic stripe technology reader and can also operate in IBM 5029 emulation mode - however, all keypad functions are disabled.

These readers easily replace existing IBM Model 5029 readers without the need to rewire or change existing microcontrollers. Simply unplug the 5029 reader and plug in the Model 430 or 435 reader to the reader's DB-9 connector.

Magnetic Stripe Technology

The Model 430 and 435 readers will read any magstripe badge with data written in standard ABA format on track two.

Intelligent Microcontroller Communication

Model 430/435 readers communicate with the microcontroller through a bi-directional data link. This link carries information, such as keypad input, magnetic stripe data, command responses, and status messages to the microcontroller.

Voltage Auto-Sensing

The Model 430 and 435 readers auto-sense an input voltage range of 12 VDC to 48 VDC and automatically adjust.

Standard Features

- Reads magnetic stripe cards ABA track two format
- 12 to 48 VDC input-auto-sense
- Up to one mile communication distance from reader to microcontroller
- Two operation modes: standard UTC Supervised F2/F communication and IBM 5029 mode, each jumper selectable
- Keypad for PIN number entry (Model 435 only)
- Red, green, yellow LED indicators and beeper
- Door strike relay included
- Rugged cast aluminum housing
- Weather-resistant
- Optional cold weather heater kit available

Model 430/435

Specifications

Colour	Grey
Dimensions	111 x 111 x 35 mm
Operating temperature	0 to 60°C
...with optional cold weather kit	-40 to 60° C
Relative humidity	0 to 95%, non-condensing
Max. cabling distance (on standard 22 AWG telephone wire)	
12 VDC operation	609 m
48 VDC operation	1609 m
The reader will work well with unshielded cable in most environments; no company, including UTC, can guarantee that data will be reliably transmitted for long distances on unshielded cable in every installation	
12 VDC operation implies that a 12 VDC power supply is located within 609.6 m. of the reader; the use of an auxiliary power supply close to the reader may allow greater communication distances	
Wiring	4 conductors (min.)
Power supply	Nominal 12 VDC to 48 VDC, 130 mA
Door Strike Relay	
Max. contact rating	0.75 A
Max. contact voltage	28 VAC or VDC
A door strike is built into the reader	
The life of the relay will decrease as the current switched by the contacts is increased; use low current door strikes for high traffic doors to maximize the relay life; use an external relay for high current applications	
Compatibility with microcontrollers	Micro/2, Micro/4, Micro/5-PX, Micro/5-PXN, Micro/PX-2000
Other products	Hosts that accept F/2F magnetic strip data in accordance with the ABA for track two numeric data
Badge formats	First 4- to 16-digit number conforming to the ABA standard for track two numeric data
Tamper and door status switches	430 and 435 supervised mode only
Indicators	Red, yellow and green LEDs and beeper

Ordering Information

Part No.	Description
----------	-------------

