M200 Fixed Reader

RF Code™
Product Data Sheet

With a modular design and low price, the M200 fixed reader provides an economical solution to a wide variety of asset tracking problems.

Features & Benefits

- *Instantaneous Tag Reporting*
- *Software-Configurable Range Control Settings*
- *Small Footprint and Flexible Mounting Options*
- *Serial (RS232) Interface*
- *Direct API Interface Available*
- *Wired Ethernet Communications (Wireless Ethernet is optional)*
- *High Throughput Performance Supports Large Tag Populations*
- *Patented Anti-Collision Technology to Manage High RF Densities*
- *Dual Channel Receiver Provides Tag Signal Reception Diversity*
- *Optional Antenna Configurations for Customized Coverage Zones*
- *Standard 110/220 Power Supply and optional Power over Ethernet (PoE)*

The 433 MHz M200 fixed reader interprets and reports the radio frequency messages emitted by RF Code tags at distances up to 1,000 feet (with optional custom antenna configurations). Tag transmissions can be processed in real-time to quickly locate and identify tagged assets or personnel in defined areas. M200 readers are compatible with wired and wireless networks for rapid integration into an organization's IT infrastructure. With a modular design and low price, Readers provide an economical solution to a wide variety of asset tracking problems. RF Code's patented communication protocols allow for very high tag densities. Large populations of tags can be monitored using a single reader.

The M200 reader's maximum sensitivity (maximum range) depends upon the installation, location and antenna configuration. The operating read range is software configurable and can be adjusted for customized applications. At default settings, the reader operates with no attenuation (Range Setting 8) and reports every tag in its environment. The effective range can be reduced in 5 dB steps by selecting one of the pre-programmed settings (1 through 7). Additional fine-tuning can be accomplished by dialing down the sensitivity in 1 dB increments to limit coverage to a single room or defined zone.

RF Code's patented communication protocols allow for very high tag densities. That means that large populations of tags can be monitored using a single reader.

RF Code M200 Fixed Reader Specifications

OPERATION	
Operating Frequency	433.92 MHZ
Ethernet	10Base-T via RJ45
Wireless Ethernet	via 802.11b (option)
Protocol	TCP/IP
Serial RS232	115.2 kbps via 9-pin D connector
Receiver Sensitivity	> 50 dB dynamic range (-58 dB to -108 dB)
Default Range Settings	8 factory programmable range settings in 5 dB increments
Customizable Control	Range settings selectable in 1 dB increments`
Tag Density	Up to 140 tag reports per second (TRPS)
Group Code Management	Up to 8 tag group codes can be monitored separately

READ RANGE	
Helical Antenna	Up to 150 feet (45 m)
Omni-angle Antenna	Up to 300 feet (91 m)
YAGI Antenna	Up to 1,000 feet (300m)

ENCLOSURE	
Width	5.00 in (127 mm)
Depth	4.65 in (118 mm)
Height	1.56 in (40 mm)
Weight	16.0 oz (453 g)
Construction	Aluminum powder coat protected
Mounting	Ceiling, wall-mount or desktop operation

ENVIRONMENTAL	
Operating Temperature	-20° C to +70° C
Storage Temperature	-40° C to +80° C
Operating Humidity	10% to 90% non-condensing

POWER	
Power	9-20 VAC / 12-28 VDC
Power Consumption	2.5 W (typical)
Power Supply	120 VAC adapter / 12 VDC-500 mA
Optional Power Supply	220 VAC adapter / 12 VDC - 500 mA
Optional Power	Power over Ethernet (PoE) adapter

LED INDICATORS	
Front	On-Ready, Tag Activity
Back	Link, Collision

ANTENNA CONNECTION	
Connector Type	Dual-channel SMA flange receptacles

RF Code™
9229 Waterford Centre Blvd. ♦ Suite 500
Austin, TX 78758
Tel: 512.439.2200 ♦ Fax: 512.439.2199
sales@rfcode.com ♦ http://www.rfcode.com

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