M240 Reader

RF Code™ Readers

This low priced reader provides an economical solution to a variety of remote monitoring challenges, including distributed network and telecommunications closets.

Features & Benefits

- *Full Function Ethernet port (10/100, full duplex)*
- *Standard 110/220 Power Supply and On-board Power over Ethernet (PoE)*
- *On-board tag database up to 20 Sensor Tag IDs*
- *Instantaneous Reporting od Environmental Data*
- *Small Footprint and Flexible Mounting Options*
- *Direct API Interface Available*
- *Ability to Support Multiple Simultaneous Connections*
- *Static/Dyanmic IP Support*
- *Fully Compatible with Zone Manager, Asset Manager, and Sensor Manager*

M240 readers are dual-channel radio receivers tuned to 433.92 MHz and dedicated to interpreting and reporting the radio frequency messages emitted by RF Code sensor tags. The M240 reader is designed to monitor the current conditions (e.g., temperature, humidity) being reported by up to 20 RF Code sensor tags deployed within its immediate vicinity. These sensor tag transmissions are processed simultaneously in real-time to report up-to-the-minute conditions and environmental changes observed in remote locations, such as distributed network closets.

Environmental data is made available by an application connected to the reader via TCP/IP (10 /100 wired Ethernet network). The M240 supports multiple simultaneous network connections enabling multiple applications to consume the environmental data. The M240 reader also supports encrypted connections (HTTPS and SSH). All the operational settings are password protected and secure.

The M240 reader has customizable firmware that allows direct focus on the sensor monitoring functionality. Operating in this mode, the user is essentially assigning each reader to report activity from up to 20 unique sensor tags that have been registered on a tag ID list that is specific to each reader location and coverage zone. Readers operating in 'exception mode' report only those events that represent a change in conditions for the sensor tags that have been registered to the reader's tag list; this significantly reduces the amount of software data processing. For all configured tags on the readers' list, the environmental data and the presence or absence of each tag ID will be reported (online / offline).

Designed for indoor use, the M240 is ideal for small network or IT closets, with an intended read range of 12-to-15 feet for coverage zones of up to 700 square feet (typical) depending on the deployment size and local RF environment. M240 readers can be powered over Ethernet, 100-240 V power supply w/ IEC connector and US cord, DC barrel jack connector, or DC bare wire connector (12 to 24 volt). Installation options include shelf, wall- or ceiling-mount.

Original image URL: http://www.flickr.com/photos/clonedmilkmen/4390901323/
Title: Wiring Closet: After

Sensor tag transmissions are processed in real time for environmental monitoring in remote locations.

RF Code M240 Reader Specifications

OPERATION	
Operating Frequency	433.92 MHz
Ethernet	10/100 Full Duplex via RJ45
Protocol	TCP/IP
USB	USB-A and USB-B serial

READ RANGE	
Intended Use	12 to 15 feet (700 sq. ft.)
Line of Sight	50 to 75 feet (typical)

SENSOR/TAG CAPACITY	
Maximum Tag Capacity	20 sensors/tags (maximum)

ENCLOSURE	
Width	5.72 in (145 mm)
Depth	5.72 in (145 mm)
Height	.98 in (25 mm)
Weight	24.7 oz (700 g)
Construction	Powder coated steel enclosure
Mounting	Ceiling, wall-mount or shelf-mount 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	12-24V DC
Power Consumption	2.5 W (typical), <3 W PoE
Power Supply	100-240 V with IEC connector
Optional Power	On-board Power over Ethernet (PoE) adapter (IEEE 802.3af-2003 compliant)

LED INDICATORS	
Front	On-Ready, Tag Activity
Back	Link, 10/100, USB-A In Use, Status

ANTENNA CONNECTION	
Connector Type	Dual-channel SMA flange receptacles

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