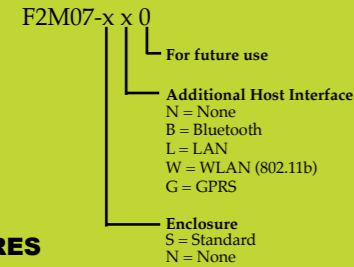


RFID_s READER F2M07

GENERAL DESCRIPTION

The RFID_s reader is used along with the F2M08 Tag to get a complete system for identification, temperature measurement or temperature logging. The reader is also used for wireless configuration of Tags. The reader uses the 2.4 GHz ISM band.

ORDERING INFORMATION

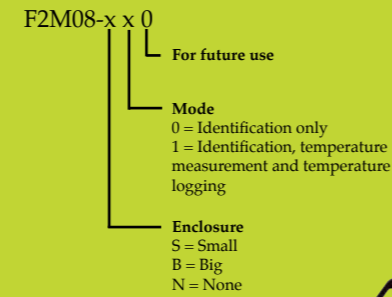


FEATURES

- Long range
- IP 65 classified enclosure
- Coaxial Connector for external antennas.
- Numerous optional host interfaces
- Easy to use Host Protocol

RFID_s TAG F2M08

ORDERING INFORMATION



FEATURES

- Long range
- Small size
- Several years of operating time
- IP classified enclosure
- Replaceable battery
- Remote supervision of onboard battery
- Low cost
- Customization possible

SPECIFICATIONS

Dimensions:	160 x 100 x 40 mm (standard enclosure ex antenna).
Standard enclosure:	ABS plastic.
Operating temperature:	-20...+70° C
Storage temperature:	-20...+70° C
Relative humidity:	5%...100% condensing
Power supply:	8-28V DC / 400mA
Operating frequency:	2.4 GHz ISM band
Antennas:	External SMA connector. Various antennas can be used.
API:	The reader host interface protocol uses a set of commands for configuration, reading id and logs.
Distance:	Up to 70 meters with line of sight (monopole antenna).
RF Output power:	-20dB to 0dBm configurable.
Interface:	Various. RS232 and RS422 as standard.
Bluetooth:	Class 2, Supports Bluetooth serial port profile.
Serial interface:	115 Baud, 8 data bits, 1 stop bit, no parity and no hardware flow control.
RS422:	Maximum 800 meters, 4-thread full duplex.
TAG detection:	Typical 150 Tags/second, maximum 300 Tags/second.
Conformance:	FCC P. 15 Class A, CE
LED indication:	Power, Tag activity and HOST communication.

SPECIFICATIONS

Dimensions:	31 x 21.5 x 7 mm (without enclosure). 40 x 40 x 15 mm -Sx0 40 x 80 x 20 mm -Bx0
Operating temperature:	-20...+70° C
Storage temperature:	-20...+70° C
Relative humidity:	5%...100% condensing
Powered:	Lithium battery CR2032, -Sx0, -Nx0 Alkaline AA cells, -Bx0
Operating frequency:	2.4 GHz ISM band
Operating mode:	RTF - Reader Talk First TTF - Tag Talk First
Distance:	Up to 70 meters with line of sight.
Configuration:	Wireless via RFID _s reader.
Identification code:	40 bit unique for every Tag.
User friendly device name:	User defined, 20 characters.
Scan for reader interval:	User defined from 1 second to 1000 minutes.
Battery voltage measurement accuracy:	0,5 V
Conformance:	FCC P. 15 Class A, CE
Anticollision:	Yes
Output power:	-20dBm to 0dBm configurable.
F2M08-x1x, SPECIFICS	
Temperature accuracy:	±0.5° C
Resolution:	±0.5°, 0.25°, 0.12° and 0.06° C
Logger memory size:	1000 temp loggings.
Temperature measurement interval:	User defined from 1 second to 1000 minutes.

ACTIVE RFID_s
RADIO FREQUENCY IDENTIFICATION & SENSING

IT MAKES SENSE



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Active RFID is more than just identification. Free2move has developed a novel active RFID & sensor system for a range of applications. With background in design of a range of wireless products such as Bluetooth modules Free2move leverage this in the design of this new RFIDs system. With a range of more than 70 m and long battery life of the tags the Free2move RFIDs system targets numerous applications such as industrial monitoring, supervision of cold chain, location of goods, location of animals, security systems, sensor networks etc.

FREE2MOVE is focused on providing products based on wireless technology. The Free2move product portfolio ranges from RFID systems and high performance surface mounted Bluetooth modules to LAN access points and embedded systems with Bluetooth access. The products provided by Free2move can be customized to fit a variety of applications. These customization projects are very cost efficient and gives short time to market as they are based on the Free2move product portfolio. Free2moves products are characterized by small size, high quality and user friendliness.

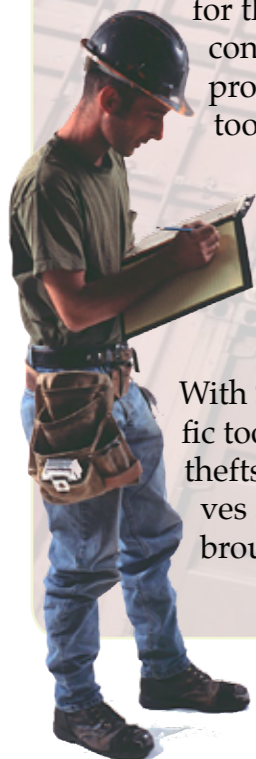
RFIDs START KIT

- 1 RFIDs reader F2M07-SN0 & 2 Antennas
- 5 RFIDs tags F2M08 (2x-S00, 1x-S10, 1x-B00, 1x-B10)
- 1 Power supply for reader
- 1 RS232 cable
- 1 CD comprising software and documentation



Machine rental management

SafeTool delivers products and information systems developed and tested for the construction industry. A close co-operation with leading construction companies and machine rental stores has led to a product range that increase the security, and usage of construction tools and machinery.



Every year machines and tools to a value of 1.5 billion SEK are stolen from Swedish construction companies. To prevent this several construction firms plan to integrate RFID labels in machines and tools.

With SafeTool's solution it is possible to know who fetches a specific tool and thereby reduce the number of thefts. The Free2move RFID system gives a secure reading of the tools that are brought in and out of the container.



Where are my things?
In order to give the customer a full asset management system the RFIDs system is connected to a server realizing functions like:

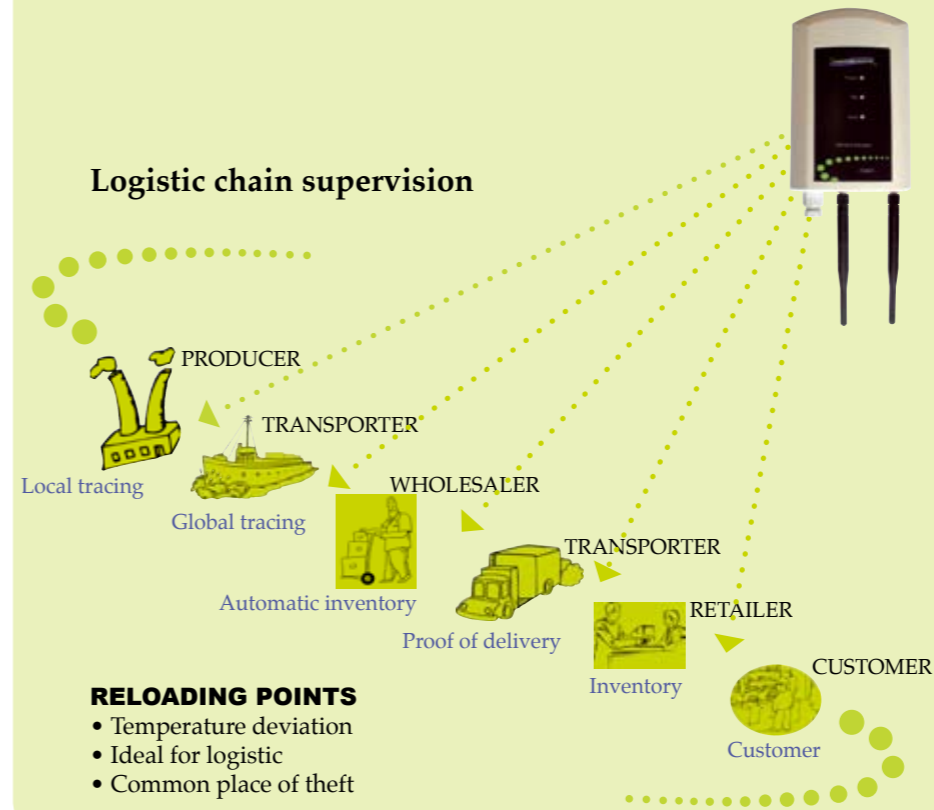
- Map server showing the location of a tag (Europe is covered)
- Programming framework supporting GPS, GPRS
- SMS server for messaging

Theft protection

A special case of asset management is theft protection of goods. Together with partner Communication Dynamics Free2move has developed this system with internet back-office support and tags that are secure for this application. The RFIDs tag can be placed on any object that needs to be supervised. The tag can not be removed from the object without generating an alarm.



Logistic chain supervision



TEMPERATURE SENSING OPTIONS

Identification only: 00000000C9
Temperature measurement: 12.3 °C

