LASER OPTRONIX

Features of Protectomatic Mini 30 RFID system

* Read Protectomatic active tags at over 30 meter free sight range (60 meter circle)
* RFID Tags have integrated intelligence and interfaces with 2 way communication and low battery check
* Reading capacity is over 300 tags per sec making high volume applications possible
* Net work design cowering large areas, PC system as central unit
* Simple and easy to operate
* Fully integrated to Protectomatic Total security solutions
* Interesting options as RFID tag have a micro controller which can have software for special applications

Protectomatic RFID reader and tags Mini 30 series

This is a medium range RFID system cowering distances up to 30 meter in free sight.

The reader have a net work interface to central PC computer. Communication by LAN/W-LAN , RS 232/RS 485 or Bluetooth.

RFID tag is very advanced with a integrated micro controller. There is a full 2 way communication. This includes automatic battery check and alarm if level is low.

There are in and out put capability for tag. This admits very interesting options as tags can operate in a way like a small PLC system or sensor. One model of tag have a built in temperature control.

PM Mini 30 can operate as a normal advanced RFID system. It can also be included as the sensor part of Protectomatic total security system. This makes it possible to control and supervise areas in a far higher level of security than others systems accept. Protectomatic makes it possible to detect and identify all persons moving in an area. Alarms are activated when someones ID is not accepted or known.

Protectomatic total security system can be combined with automatic inventory and sensor control if needed. This flexibility is unique.

This product have patent protection   *Document   Mini30 20060901*

LASEROPTRONIX   Tel: 46-70 714 04 70
Enhagsslingan 23   187 40 Täby   (20 kmNorth Stockholm)
Sweden   Web site www.laseroptronix.se   E-mail   info@laseroptronix.se

GENERAL DESCRIPTION

The RFIDS reader is used along with the F2M08 TAGs 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 2.45 GHz ISM band.

ORDERING INFORMATION

F2M07-x-x-x

Bluetooth
B = Bluetooth
N = None

Antenna
I = Internal (standard)
U = U.Fl. coaxial connector)
C = U above and cable to SMA
E = C above and standard monopole antenna

Enclosure
S = Standard
N = None

F2M08-x-x

Mode
0 = Identification only
1 = Identification, temperature measurement and temperature threshold logging
2 = Identification, temperature measurement and temperature threshold logging (external memory)

Enclosure
S = Standard
N = None
O = Other

FEATURES

* Long range
* IP classified enclosure for outdoor use avaliable
* Optional coaxial connector for external antennas.
* Host interface protocol via Bluetooth, RS232 or RS422.

FEATURES

* Long range
* Small size
* Several years of operating time
* Water resistant enclosure avliable
* Replaceable battery
* Remote supervision of onboard battery
* Demo kit available
* Low cost
* Customization possible

Mini 30 RFID reader

Dimension: 180 x 130 x 30 mm (standard enclosure).
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: Internal or external monopole (can be replaced width directional antennas).
API: The reader host interface protocol. Uses a set of commands for configuration, reading id and logs.
Distance: Up to 30 meters with line of sight (monopole antenna).
RF Output power: -20dB to 0dBm configurable.
Interface: Bluetooth RS-232 , RS-422
Bluetooth: Class 2, Supports Bluetooth serial port file.
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.

Mini 30 / F2M08 RFID tags

Dimension: 33 x 23 x 6 mm (without enclosure).
Operating temperature: -20...+70• C
Storage temperature: -20...+70• C
Relative humidity: 5%...100% condensing
Powered: Lithium battery CR2032
Operating frequency: 2.4 GHz ISM band
Distance: Up to 30 meters with line of sight.
Configuration: Wireless via RFID 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
Anti collision: Yes
Output power: -20dBm to 0dBm configurable.
F2M08-x1, x2 SPECIFICS
Temperature accuracy: ±0.5 C
Resolution: ±0.5 , 0.25, 0.12 and 0.06 C
Logger memory size (-x0): 50 threshold loggings.
Logger memory size (-x2): 500 threshold loggings or 1000 temp loggings.
Temperature measurement interval: User defined from 1 second to 1000 minutes.

PC and data base functions

Software for Mini30 RFID system. Protectomatic software interface the readers to the Total security concept. This gives ana unique level of security.

Personal security solutions using the unique tags for protecting the staff in key areas.

Data base solutions for automatic inventory and asset management.

Many of our products are protected by patents and patent applications   *Document   Optifinder 2006 05 19*