



LFM Reader

The HERMOS RFID LFM reader is a read/write device of the HERMOS LFM class (LF midrange), which communicates with passive transponders in the LF range (134.2 kHz). The reader can also be used in metallic environments. With four antenna connections, linking with multiple identification points is possible. Each antenna connection has its own antenna tuning, with which the connected antenna is tuned to the ambient conditions. RS232 and Ethernet are available as data interfaces.

Technology

LFM Reader (LF Midrange 134,2 kHz)

Components

- » RS232 and Ethernet data interface
- » 4 antenna ports
- » 4 DIP switches and 3 status LEDs
- » I/O module with inputs and outputs per antenna port

Functions

- » power supply via Ethernet (PoE) possible
- » automatic antenna tuning
- » configurable polling mode
- » Configurable test mode with optical display
- » Automatic reading function

Features

- » Transponder identifiable according to ISO 18000-2
- » Applications also in metallic environment
- » uncomplicated setting by means of DIP switch
- » reader available with different IO modules

Die Highlights

Four antenna ports

Cost-saving concept due to the extended number of identification points.

Various configurations available

The number of available four antenna ports can be customer-specific adaptable. Different I/O modules available.

RS232 and Ethernet interface

Easy and uncomplicated integration due to RS232 and Ethernet interface.

ASCII and SECS/HSMS are available as data protocols.

The reader has the following protocols:

- » SECS/HSMS
- » ASCII HERMOS
- » ASCII Brooks Automation

Automatic tuning

Flexible reading range, depending on requirements adjustable. Optimal adaptation of antenna tuning to environmental conditions. Automatic detection of antenna breakage (defective antenna or feed line).

Power over Ethernet (PoE)

Savings potential through the use of PoE within the network infrastructure, relief of the cost budget through fewer power supply units and less cabling.

Polling mode adjustable for each antenna

Automated reading processes simplify operations and control efforts.

Configurable test mode with visual display

Visual monitoring of read characteristics through configurable test mode by means of DIP switches.

Item number	Description			
	Interfaces	Protocol	Antennas	I/Os
HRF.R.LFM.4S.XA.10.10A	Ethernet, RS232	ASCII, SECS		Without
HRF.R.LFM.4S.XA.18.10A	Ethernet, RS232	ASCII, SECS	Lemo 0S 3-polig Lemo 0S 2-polig	4 In 4 Out
HRF.R.LFM.4S.XE.10.10A	Ethernet RS232 (E-Sign)	ASCII, SECS		Without
HRF.R.LFM.4S.XE.1S.10A	Ethernet RS232 (E-Sign)	ASCII, SECS	6 In-, 8 Outputs (Phoenix MC 1,5 / 3,81 mm)	24V I/Os
HRF.R.LFM.4S.WA.10.10A	Ethernet, RS232	ASC-W1, SECS		Without
HRF.R.LFM.4S.WA.18.10A	Ethernet, RS232	ASC-W1, SECS	Lemo 0S 3-polig Lemo 0S 2-polig	4 In 4 Out

(Further variants and customer-specific configurations available on request)

Technical data

Interface: RS232, Ethernet
 Protocols: ASCII HERMOS, SECS/HSMS
 Antenna port: 4
 Frequency: 134.2 kHz; ISO18000-2; TIRIS
 Dimensions: 130 x 124 x 45 mm
 Weight: 590 g
 Housing material: aluminum black/nature anodized

Protection class: IP40
 Operating temperature: 0 °C to 50 °C
 Storage temperature: -25 °C to 70 °C
 Permissible humidity: at 50°C 25% to 80%
 Current consumption: 80 mA / 300 mA (passive/active)
 Voltage: 20 - 28 V (reverse polarity protected)
 Conformity: CE, FCC, RoHS, REACH

