LFM LP Reader

The HERMOS RFID LFM LP Reader is a read/write device of the LFM class (LF Midrange), which communicates with passive LF transponders. It is designed for Auto-ID solutions in retail and industry. High quality components make the reader very reliable and error resistant. The reader can also be used in metallic environments. The device is particularly suitable for clean room applications with a reading distance in the small and medium range.

Technology
LFM Reader (LF Midrange 134,2 kHz)

Components
» RS232, Ethernet data interface or EtherCAT
» 1 antenna port
» LEDs for status display

Functions
» Automatic antenna tuning
» Configurable test mode with visual indication
» Configurable polling mode
» Automatic reading function
» Automatic detection of antenna break

Features
» Transponder identifiable according to ISO 18000-2
» Applications also in metallic environment
» Available with customized interfaces

The highlights

Antenna port
Automatic detection of antenna breakage (defective antenna or feed line).

RS232 or Ethernet interface
Simple and uncomplicated integration due to RS232 or Ethernet interface. Available data protocols are ASCII and SECS/HSMS are available.

Various configurations available
Available with customer specific interfaces and protocols. The reader has the following protocols:
» SECS/HSMS
» ASCII HERMOS
» ASCII Brooks Automation
» ASCII OMRON V640
» ASYST

Automatic tuning
Flexible reading range, adjustable according to requirements. Optimal adjustment of the antenna tuning to the environmental conditions.

Polling mode adjustable
Automated reading processes simplify the procedures and the control effort.

Configurable test mode
The reading range can be easily checked on site by the device. The result is displayed on a status LED.

Item number	Description			
	Interfaces	Protocol	Antennas	I/Os
HRF.R.LFM.1L.XR.L0.10A	RS232	ASCII und SECS	LEMO	Without
HRF.R.LFM.1S.XR.L0.10A	RS232	ASCII und SECS	SMA	Without
HRF.R.LFM.1L.XE.L0.10A	Ethernet	ASCII und SECS/ HSMS	LEMO	Without
HRF.R.LFM.1S.XE.L0.10A	Ethernet	ASCII und SECS/ HSMS	SMA	Without
HRF.R.LFM.1L.XE.L1.10A	Ethernet	ASCII und SECS/ HSMS	LEMO	1 In-, 1 Output
HRF.R.LFM.1S.XE.L1.10A	Ethernet	ASCII und SECS/ HSMS	SMA	1 In-, 1 Output
HRF.R.LFM.1L.EC.L0.10A	EtherCAT	ASCII – EC	LEMO	Without
HRF.R.LFM.1L.OE.L0.10A	Ethernet	Omron	LEMO	Without
HRF.R.LFM.1L.TE.L1.10A	Ethernet	ASYST	LEMO	1 In-, 1 Output

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

Technical data

Interface:	**RS232, Ethernet, EtherCAT**	**Protection class:**	**IP40**
Protocols:	**ASCII HERMOS, SECS/HSMS, ASCII Brooks, ASCII OMRON V640, ASYST**	**Operating temperature:**	**0 °C to 50 °C**
		Storage temperature:	**-25 °C to 70 °C**
Antenna port:	**1**	**Permissible humidity:**	**at 50°C 25% to 80%**
Frequency:	**134.2 kHz; ISO18000-2; TIRIS**	**Current consumption:**	**80 mA / 300 mA (passive/active)**
dimensions:	**110 x 82 x 34 mm**	**Voltage:**	**20 - 28 V** (reverse polarity protected)
Weight:	**250 g**	**Conformity:**	**CE, FCC, KCC, NCC, Sirim, RoHS, Reach**
Housing material:	**aluminum black/nature anodized**		