



Boxes antenna head



Reading nest for 200mm carrier



E-Ink Display



LF WIP Rack

The RFID WIP rack solution from HERMOS offers the possibility to equip lattice shelves with RFID functionality. This solution is applicable for all common shelf types and sizes and allows the retrofitting of existing shelves. The antenna heads are mounted directly on the shelf and connected to a central reader unit. The occupancy of a shelf location is detected by an integrated light sensor and an identification is performed automatically. Visualization at the shelf locations is provided by a multicolor LED or an E-Ink display. The shelf status and stock changes can be displayed on a panel PC.

Technology

RFID-LF Frequency 134.2 kHz (ISO 18000-2)

Components

- » Central reading unit, up to 32-fold
- » Special antenna heads for box or carrier, max. 32 pieces
- » Antennas integrated in the antenna head, sensor and 3 colored LEDs
- » E-Ink display (optional)

Functions

- » Detection of shelf occupancy by optical sensor
- » Automatic reading function and data transfer
- » Visualization by multicolor LEDs at the shelf location
- » Configurable test mode with optical display
- » Level detection can be implemented

Features

- » Easy RFID integration into existing shelves
- » independent of shelf type and size
- » LAN/WLAN interface
- » Supports ASCII HERMOS protocol
- » Supports SEMI Equipment Communication Standard SECS (on request)

The highlights

Touch panel PC (optional)

Status information, rack occupancy and other details can be displayed directly on the touch panel PC or transferred to the host.

Flexible configuration

The system is suitable for existing lattice racks and other rack types. It can be expanded modularly at any time. The number of rack locations and levels is flexible.

Power over Ethernet (PoE)

Savings potential through the use of PoE within the network infrastructure.

Configurable test mode with visual display

Visual monitoring of the reading characteristics via DIP switches. Configurable test mode

Automatic data acquisition

Continuous inventory is maintained through automatic reading and data forwarding.

Event-controlled processes

ensure long component life.

E-Ink Displays

Detailed information can be displayed directly on an e-ink display.

Optimize your workflows with RFID!

- » Automatic inventory recording
- » Recording of the production processes
- » Optimization of the material stocks and thus the storage areas

| Part number | Description |
|-------------------------|---|
| HRF.W.LFM.32B.WV.1W.10K | LF-Kit 32x (LF-WIP 32x Reader + 32 Antennas (Read Head Box), Cable, Universal Kit for 32 Shelf, 1- or 2-sided, or 2x16) Hardware, with Display Connector, Generation 3 with Click Mounting in 7 Positions |
| HRF.W.LFM.30B.WV.NW.10K | LF-Kit 30x (LF-WIP 32x Reader + 30 Antennas (Read Nest CAS), Cable, Kit for 30 Shelf) Hardware, with Display Connector, Click Mount |

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



As standard, the LFM WIP racks are designed for a maximum of 32 control stations. Further variants and customer-specific configurations are available on request.

Technical data

Interface: Ethernet
 Protocols: ASCII HERMOS, SECS/HSMS (optional)
 Antenna port: 32
 Frequency: 134.2 kHz; ISO18000-2; TIRIS
 Housing material: Stainless steel/PP
 Protection class: IP40
 Display: E-Ink display

Operating temperature: 0 °C to 50 °C
 Storage temperature: -25 °C to 70 °C
 Permissible humidity: at 50°C 25% to 80%
 Power consumption: 60 mA / 200 mA / max. 300 mA (passiv/reading/pulse)
 Voltage: 24 VDC and PoE
 Compliance: FCC, RoHS, REACH

