



HFM

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-HF Frequency 13.56 MHz (ISO 15693)

Components

- » Central reading unit, up to 32-fold
- » Special antenna heads, max. 32 pieces
- » Integrated antenna sensor and LED
- » 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 SEMI Equipment Communication Standard (SECS)

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.

Ethernet and USB interface

Easy and uncomplicated integration due to the Ethernet interface.

Process integration

Easy integration due to the support of the SEMI Equipment Communication Standard (SECS/HSMS).

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



Available variants and offers on request.

As standard, our HFM WIP racks are designed for 16, 32 and 40 rack locations. Other variants and customer-specific configurations are available on request.

Technical data

Interface: Ethernet
 Protocols: SECS, SECS1, HSMS, customer protocol
 Antenna port: Variant dependent
 Frequency: 13.56MHz, ISO15693
 Transmitting power: 1.1W
 Housing material: Stainless steel/PP
 Protection class: IP40

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: 80 mA / 300 mA (passive/active)
 Voltage: 24 VDC and PoE
 Conformity: CE, RoHS, REACH

