LFP Handheld

The RFID reader LFP is a handheld reader for 134.2 kHz TIRIS transponders according to ISO standard 18000-2 with USB interface. The device can work in the two operating modes keyboard emulation and emulated RS232 interface. A read operation is initiated by pressing a button and confirmed by an LED and a beep if identification is successful. Depending on the selected operating mode, the read data is either output directly in an active input field (as with a keyboard input) or sent via an emulated RS232 interface (virtual COM port) in a defined ASCII protocol.

Technology
RFID-LF frequency 134.2 kHz (ISO 18000-2;
LF TIRIS transponder)

Components
» housing for ergonomic one-hand operation
» Integrated membrane keypad with LEDs
» integrated configurable buzzer
» USB connection cable in variable lengths up to 4.0 m
» The operating modes keyboard emulation and emulated RS232 interface combined in one device

Features
» Typical reading range of a LF TIRIS 32 mm glass transponder approx. 90 mm
» User friendliness due to easy handling
» Easy integration into existing processes
» In the operating mode keyboard emulation flexible parameterization through simple menu navigation
» In the operating mode emulated RS232 flexible parameterization via parameterization via defined messages
» Software update possible in emulated RS232 operating mode RS232 interface possible

Functions
» Mobile LF reader with medium reading range
» Operating modes: keyboard emulation or emulated RS232 interface
» Easy change between operating modes via key combination
» In the operating mode keyboard emulation installation-free

Commissioning (Plug & Play)
» In ASCII protocol operating mode, an RS232 interface is emulated interface is emulated (one-time driver installation required), here the reading and writing of data and the locking the locking (lock) of pages is possible
» Operation by push of a button
» Read button for index finger (bottom) or thumb (top)
» Optical display and adjustable acoustic feedback

The highlights

Ergonomic housing
Easy to use due to ergonomic handle area, for both right- and left-handers.

Membrane keypad
Easy operation through direct selection keys and LED displays in reading mode and menu navigation.

Simple process integration
Easy integration of the RFID solution into existing processes through the use of an HID interface (input like keyboard).

Flexible communication with standard ASCII protocol
Flexible rapid integration of the RFID solution into existing processes through communication using a simple standard ASCII protocol via a virtual COM port. In this mode also writing (programming) of transponders is possible.

Integrated antenna
The reader is equipped with an integrated antenna.

Customer specific adaptations
Customer specific functionalities are optionally implementable. Adaptation to customer-specific communication protocols is possible.

Part number	Description		
	Interfaces	Protocol	Length
HRF.R.LFP.0I.YU.10.12S	USB	Keyboard + ASCII	1,2 / 3,0m Spiral cable
HRF.R.LFP.0I.YR.10.12S	RS232 (USB voltage)	Keyboard + ASCII	1,2 / 3,0m Spiral cable

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

Technical data

Connection: USB variable cable length up to 3m
antenna: integrated
Frequency: 134,2 kHz , ISO 18000-2, TIRIS
dimensions: 185 x 90 x 60 mm
weight: 450 g
Housing material: ABS
Protection class: IP40

Operating temperature: 0 °C to 50 °C
Storage temperature: -40 °C to 85 °C
Permissible humidity: at 50°C 25% to 80%
Current consumption: 80 mA / 300 mA (passive/active)
Voltage: 5 V (+/- 5%)
Compliance: FCC, RoHS, REACH