Advanced reader technologies

i-*scan*® *HF*

(13,56 MHz)

Hand-held Reader
ID ISC.PRH101-A
ID ISC.PRH101-B
ID ISC.PRH101-USB

ID ISC.PRH101-B

Multi-tag Hand-held Reader for identification of ISO transponders for mobile applications in retail, industry, logistics, libraries, medical environments etc.

Features:

- Various interfaces (RS232, USB, Bluetooth)
- Anti-collision function
- Multi-tag reader (ISO 15693- and ISO 18000-3 tags)
- 2 operation modes: FEIG ISO HOST & Scan-Mode

Short description and technical information

Short description

As every device of the OBID i-*scan*® *HF* product family, the hand-held readers ID ISC.PRH101-x identifies transponders with an operating frequency of 13.56 MHz. The readers have a maximum reading- / writing distance of up to 18 cm and are suitable especially for mobile use in connection with a PDA or laptop.

PDA or laptop can be used as a mobile host e.g. as data collector.

The own power supply of ID ISC.PRH101-B allows RF transmitting power, that enables identification of transponders which are very close together.

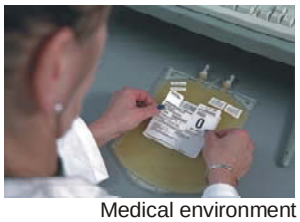
Recharchable battery capacity of 2100 mA allows up to 5000 Scans within five hours.

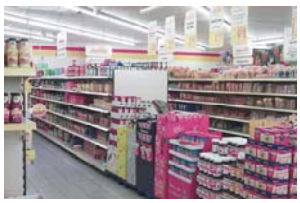
FEIG offers several DLL´s for programming host applications of mobile computers; for example Pocket PC, CE 3.0, CE.NET, Windows-, Linux- and Java systems are supported.

Standard conformity

RF approval	
- Europe	EN 300 330
- USA	FCC 47 CFR Part 15
EMC	ETSI EN 301 489
Safety	
- Low voltage	EN 60950
- Human Exposure	EN 50364
Fall	Withstands multiple5´/1.5 m drops to concrete


Logistics


Medical environment


Retail


Libraries

Technical data

Housing	Plastic ABS (enclosed)
Color	RAL 9002 / RAL 7044
Dimensions (LxWxH)	230 x 100 x 80 mm (9.06 x 3.94 x 3.15 inch)
Weight	320 g / 0.7 lb (without batteries)
Protection class	IP 30
Cable length	
- ID ISC.PRH101-A	approx. 2.5 m / 8.2 ft.
- ID ISC.PRH101-B	No cable
- ID ISC.PRH101-USB	approx. 2.5 m / 8.2 ft.
Supply voltage	
- ID ISC.PRH101-A	5 V DC +/- 0.2 V regulated
- ID ISC.PRH101-B	4 Mignon cells 1,2-1,5 V AA
- ID ISC.PRH101-USB	USB High Powered Interface
Current draw	max. 0.5 A
Power consumption	maximum 2,5 VA
Operating frequency	13,56 MHz
Transmitting power	0,5 W +/- 2dB
Antenna	integrated
Interface	
- ID ISC.PRH101-A	RS232
- ID ISC.PRH101-B	Bluetooth (serial port profile)
- ID ISC.PRH101-USB	USB (12 Mbit)
Protocol modes	FEIG ISO HOST, Scan Mode
Supported transponders	- ISO15693, ISO18000-3-Mode1 (EM HF ISO chips, Fujitsu HF ISO chips, KSW Sensor chips, Infineon my-d, NXP I-Code, STM LRI ISO chips, TI Tag-it) - NXP I-Code1, I-Code UID, I-Code EPC
Address setting for interface	
- ID ISC.PRH101-A	Software (up to 254 addresses)
- ID ISC.PRH101-B	Bluetooth MAC address
- ID ISC.PRH101-USB	Device ID of the reader
Signal generator	
- optical	1 LED (red/green/blue)
- acoustic	Buzzer
Temperature range	
- operation	0°C to 50°C (32°F to 122°F)
- storage	-20°C to 70°C (-4°F to 158°F)
Humidity	95% (non condensing)
Accessories for version -B:	
Battery Charger	ID CHA.NiMH-A Battery Charger

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