

PRODUCT DATASHEET

iID® Read Write Interfaces

M30 HEAD v2 - HF

iID® INDUSTRY HF RFID read/write unit

This integrated reader is designed for performant RF communication in industrial transponder and sensor applications. M30 HEAD can be used under harsh industrial conditions due to its robust design.

This device is available for HF (ISO18000-3) and UHF (ISO18000-6) RF communication supporting different HOST interfaces as USB or RS232/232TTL or PCAN. A comfortable set of software functions and script functionality makes this reader flexible for customer solutions.

microsensys offers an attractive component platform for RFID solutions – from transponder over smart readers to practical software tools



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RFID in motion

M30head HF 007

General:	industrial HF RFID read/write unit, iID® reader operating system
Contactless interface:	iID®2000 / iID®3000, closed coupling RFID system
RFID frequency:	13.56 MHz
RFID Standards:	ISO15693, ISO 14443A/B, ISO18000-3, NFC
Chip Solutions:	I-CODE®, Tag-it®, my-D®, Mifare®, iID®M, iID®G, mic3® chip, TELID® sensors, inside contactless pico-TAG
Communication rate:	26.4kbps (ISO15693), 106kbps (ISO14443)
Operating Distance:	0 ... 50 mm, depending on transponder and environmental conditions
Reader Antenna:	integrated P26 antenna
Field Direction:	orthogonal, front direction
HOST interface:	RS232, RS232 TTL (57.6 kbps), USB, PCAN
Connector:	M12, Binder series 712
Power Supply:	USB: 5V±5% (300mA, stabilized, low noise) or +7.5V(300mA) ... 24V(200mA) (unstabilized)
Power Consumption:	typ. 30mA (USB, idle mode, +5V), typ. 300mA (USB, active mode, +5V)
Protocol interface:	iID® 3000 PRO wire interface specification
Software interface:	iID® driver engine (Windows, Android), iID® reader library (multi platform)
Housing:	plastic housing, black
Device size:	D30 mm (M30x1.5), L68 mm
Mounting instruction:	mounting with 2 nuts, no metal environment near antenna
Visualization:	back side LED for power (yellow), status (red/green)
Environmental parameters:	
Operating Temperature:	-20°C ... +70°C
Storage Temperature:	-25°C ... +85°C
Protection Class:	IP67
Emissions:	examine for EN 300330-2, on inquiry: FCC part 15
Accessories:	M12 connector cable with different host connectors
Options:	PC-Adapter, HID-Converter (USB device)

Ordering information:

Type iID®:	78.99.700.10	78.91.700.10	78.96.700.10	78.97.700.10	78.99.700.20
HOST Interface:	USB	RS232	RS232 TTL	PCAN	USB**
Power Supply:	5V+/-5%	7.5V...24V	5V+/-5%	7.5V...24V	5V+/-5%

*) in development or delivery only for special projects

***) no binder connector, direct USB cable connection