Identification and Sensors for IoT
microsensys PRODUCT CATALOGUE
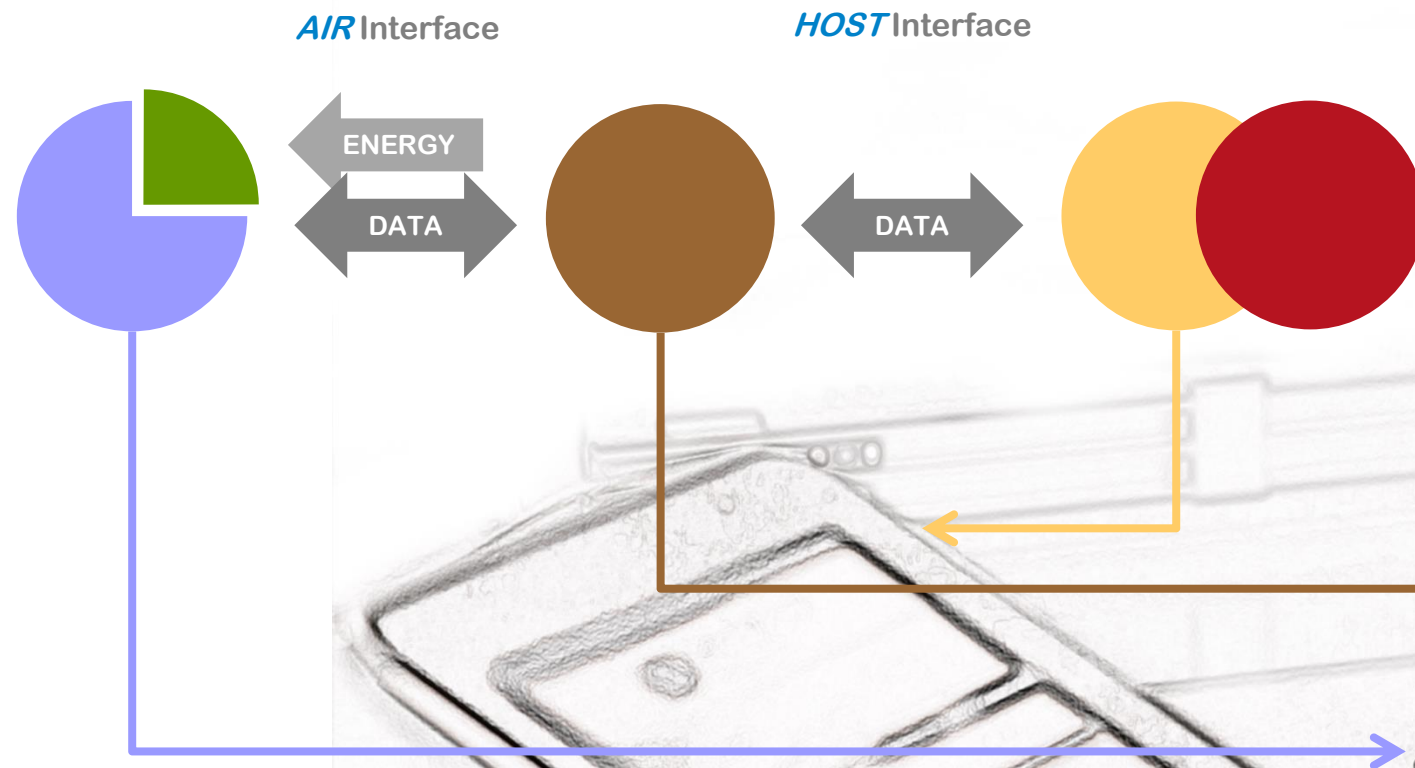
SENSORs
TAGs   PEN   POCKET   WEARABLE   INDUSTRY   DATA LOGGER

Wireless ID and Sensor Components

Transponder
Sensor Transponder

Read/Write Units

Host Computer
Software Tools

AIR Interface

HOST Interface
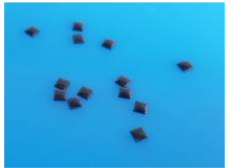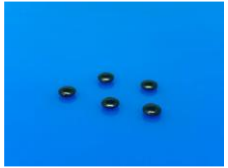
ENERGY

DATA

DATA

iID® Miniaturized Transponders
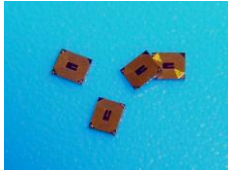
microsensys has provided this patented mic3® technology since the mid-90s. This technology created one the world's smallest RFID transponder with an integrated coil on chip antenna at a size of approximately 1.5mm³.

With memory capacities of 64-bit read only to 64-Kbit read/write and a temperature resistance of -45°C - +200°C, the mic3® transponders have sufficient memory capacity and high reliability. These transponders can be produced very efficiently in large numbers by the consistent use of wafer processes.

Because of their very small size, mic3® RFID transponders are used for unique identification or managing data for items that offer only a very small space or must withstand extreme environmental influences.

Overview – iID® Miniaturized Transponders

TAG Type	Picture	Product Code	Technicals	Remarks
mic3 16k HF		**10.53.004.00**	Size: 1.9x1.6x0.5mm Communication Distance: 0…5mm Storage Temperature:-25°C…+150°C ISO15693, iID®-G	User memory 16 kbit
Q1.6 U-TAG UHF		**19.948.100.00**	Size: 1.6x1.6x0.5mm Communication Distance: 0…20mm Storage Temperature:-45°C…+125°C ISO18000-6c, NXP UCODE 7/8	User memory on request
D4-TAG HF		**11.47.100.40** **11.47.200.40**	Size: D3.8x1.2mm Communication Distance: 0…10mm Storage Temperature:-45°C…+125°C ISO15693, SLIX-S	User memory extreme long life 1.3 kbit, NFC compatible
MINI-TAG 4.5 special HF, UHF		**11.47.515.00** **11.54.515.00** **18.933.514.00**	Size: D4.5x2.0mm Communication Distance: 0…10mm Storage Temperature:-45°C…+125°C ISO15693: SLIX-S, iID®-G/ISO18000-6c: Monza 5	Special case for embedding in metal
D6.7-TAG special HF, UHF		**11.44.550.00** **11.54.550.00** **18.933.252.00**	Size: D6.7x2.5mm Communication Distance: 0…15mm Storage Temperature:-45°C…+125°C ISO15693: SLIX-S, iID®-G/ISO18000-6c: Monza 5	Round hard TAG for mounting on metal

Overview – iID® Miniaturized Transponders

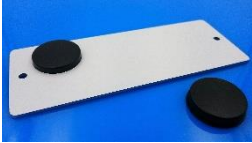| TAG Type	Picture	Product Code	Technicals	Remarks
D7-TAG HF		**15.47.100/200/210** **15.54.100/200/210** **15.72.100/200/210** **15.82.100/200/210**	Size: D7.0x1.5/1.9/2.5mm Communication Distance: 0…20mm Storage Temperature:-45°C…+125°C ISO15693: SLIX-S, iID®-G, iID®-M2, iID®-X	different memory's up to 16 kbit, NFC compatible
MINI-TAG 8.5 special HF, UHF		**15.47.502** **15.54.502** **15.72.502** **15.82.502** **18.934.500**	Size: D8.5x2.0mm Communication Distance: 0…10mm Storage Temperature:-45°C…+160°C ISO15693: SLIX-S, iID®-G, iID®-M2, iID®-X ISO18000-6c: Monza 4QT	Special case for embedding in metal, different memory's up to 16 kbit

iID® Various Transponders

Integrating RFID chips in screws, cable ties, key chains or other small objects has been part of microsensys special services for many years.

We develop new transponder designs according to your application. As an additional service, we can print or laser transponders individually, whether with a logo, serial number, barcode, data matrix or UID. On request, we can initialize RFID transponders according to your specifications. microsensys also supports transponders with special authentication and data encryption methods, i.e. transponders whose stored data are not accessible without knowledge of passwords or keys.

Ask us about feasibility - we will absolutely find a solution for you!

Overview – iID® Various Transponders

TAG Type	Picture	Product code	Technicals	Remarks
Label D11special HF		12.45.681	Size: D13x1.5mm Communication Distance: 0…10mm Storage Temperature:-25°C…+65°C ISO15693: SLIX	For on metal application
D14-TAG HF		12.47.100/200/550 12.54.100/200/550 12.72.100/200/550 12.82.100/200/550	Size: D14x3mm Communication Distance: 0…30mm Storage Temperature:-45°C…+125°C ISO15693: iID®-G, iID®-M2, SLIX-S, iID®-X	Round hard TAG for mounting on metal and nonmetal, NFC compatible, FRAM on request
D14 V6special-TAG HF		12.47.550.60	Size: D14x3mm Communication Distance: 0…15mm Storage Temperature:-45°C…+100°C ISO15693: SLIX-S	Round hard TAG for integration in shields, NFC compatible
D22 V6special-TAG HF		13.47.560.60	Size: D22x5mm Communication Distance: 0…25mm Storage Temperature:-45°C…+65°C ISO15693: SLIX-S	Round hard TAG for integration in shields, NFC compatible
D24special-TAG HF		13.47.450 13.54.450 13.82.490	Size: D6.7x2.5mm Communication Distance: 0…25mm Storage Temperature:-45°C…+125°C ISO15693: SLIX-S, iID®-G, iID®-X	Round hard TAG for mounting on metal

Overview – iID® Various Transponders

TAG Type	Picture	Product Code	Technicals	Remarks
Label 1836 HF, UHF		13.42.686	Size: 20x38x2mm Communication Distance: 0…30mm Storage Temperature:-25°C…+80°C ISO15693: SLIX	Flexible label for mounting on metal
Q43S-TAG HF, UHF, Dual		13.470.422 13.496.422 13.140.422 16.954.422	Size: 43x27x5mm Communication Distance: 0…40mm Storage Temperature:-25°C…+65°C ISO15693: SLIX-S ISO14443: NTAG216, LEGIC® Advant Dual Band: ISO14443A/ISO18000-6c	Printing or lasering possible, NFC compatible, high security, for mounting on metal
UHF Plate2570sbb UHF		16.932.453.01	Size: D3.8x1.2mm Communication Distance: 0…1 m Storage Temperature:-45°C…+125°C ISO18000-6c: IMPINJ M4	Large range, for mounting on metal, User memory
U-TAG STRIPE0525sp UHF		16.948.521 16.941.521	Size: 65x5x3mm Communication Distance: 0…1.5 m Storage Temperature:-25°C…+85°C ISO18000-6c: UCODE 8, UCODE G2XM	Large range, for mounting on metal, User memory
Q72 U-TAG UHF		16.911.151	Size: 72x18x4.5mm Communication Distance: 0…4 m Storage Temperature:-25°C…+85°C ISO18000-6c: UCODE G2XM	Large range, for mounting on metal, User memeory

Technical data is subject to change. Please see related data sheet.

Overview – iID® Various Transponders

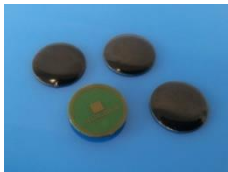| TAG Type	Picture	Product Code	Technicals	Remarks
QUIN-TAGspecial HF		**13.47.551** **13.53.551** **13.72.551** **13.82.551**	Size: 33x30x3mm Communication Distance: 0…20mm Storage Temperature:-45°C…+125°C ISO15693: iID®-G, iID®-M2, SLIX-S, iID®-X	stainless steel loop, NFC compatible, FRAM on request, Different colors possible
KEY-TAG HF		**12.47.700**	Size: 58x32x5mm Communication Distance: 0…10mm Storage Temperature:-10°C…+65°C ISO15693: SLIX-S	Different colors possible
TIE-TAG HF		**13.45.776/12.54.700** **13.47.776/12.47.760** **13.82.776/12.82.790 …**	Size: 19x19x7mm / 27x27x7mm / 7x7x7mm Communication Distance: 0…40mm Storage Temperature:-45°C…+125°C ISO15693: iID®-G, iID®-M2, SLIX, SLIX-S, iID®-X	With different cable tie, NFC compatible, FRAM on request, In different sizes available
SCREW-TAG HF		**15.72.811/812** **15.54.811/812**	Size: SW14, SW17 Communication Distance: 0…5mm Storage Temperature:-25°C…+100°C ISO15693: iID®-G, iID®-M2	TAG embedded in metal screw
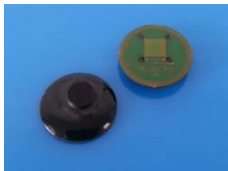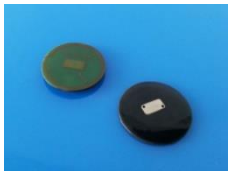
TELID® passive Sensor Transponders

The HF, UHF and NFC capable sensor transponders from microsensys represent a product category that extends the properties of transponders to the measurement of sensory sizes. These passive wireless sensors operate without any battery and are powered solely with energy by the antenna on the reader.

The range of RFID sensor transponders has been constantly updated for years, which means a large range of products for various applications are now available. microsensys provides RFID /NFC sensor transponders as part of the TELID® 200 product range and the UHF sensor transponders as part of the TELID®400 product range. The development and manufacturing of customized sensors are also possible.
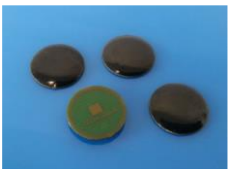
Overview – TELID®200 HF – standard products

TELID® Type	Picture	Product code	Technicals	Remarks
TELID®211.02, 211.03 Temperature Sensor TAG		**12.211.109.02** **12.211.112.00**	Working temperature: -25°C…+85°C Accuracy: +/- 0.5 K … +/- 1.0 K ISO14443-B / iID®-L, ISO15693, iID®-M	
TELID®231, 231.02 Humidity Sensor TAG		**12.231.210.00** **12.231.212.00**	Relative Humidity: 0 … 100% RH Working temperature: -25°C…+85°C ISO14443-B / iID®-L, ISO15693, iID®-M	
TELID®235 Humidity Sensor TAG		**14.235.282.00**	Relative Humidity: 0 … 100% RH Working temperature: -25°C…+85°C ISO15693, iID®-M	Miniaturized form factor – for laboratory use
TELID®241, 241.01 Pressure Sensor TAG		**12.241.100.00** **12.241.102.00** **12.241.112.00**	Pressure Range: 10 … 1200 mbar ISO14443-B, iID®-L Gel protected, pressure Range: 0..2bar, 0..30bar ISO15693, iID®-M	
TELID®243 Pressure Sensor TAG		**12.243.439.01**	Pressure Range: 0 bar .. 3 bar / 100 bar ISO14443-B, iID®-L	1/4" fitting, D17M

Technical data is subject to change. Please see related data sheet.

Overview – TELID®200 HF – project types

TELID® Type	Picture	Product code	Technicals	Remarks
TELID®271 1D Magnetic Field Sensor TAG		**12.271.109.30**	Design D14, 14 mm diameter Field Range: -1 … +1 mT ISO14443-B, iID®-L	On request
TELID®251 ADC Sensor TAG		**12.251.109.00**	Asym/Diff: 0 … +/-2 V Resistance (2point/4point): 100 Ω … 1 MΩ Resistance (full bridge): 1 kΩ … 100 Ω ISO14443-B, iID®-L	Customized, on request
TELID®281.3D 3D Acceleration Sensor TAG		**12.281.250.10**	Measurement range: -/+2, -/+8, -/+16 g Sampling rate: up to 1600 Hz 8 kbit E²PROM, 24kbit RAM ISO14443-A	Special evaluation software available
TELID®282.i Inclination Sensor TAG		**13.282.159.30**	Design Q43S, dimension: 42x27x4 mm Measurement range: -/+1.0 g, -/+45 grd Resolution: 0.5 grd ISO14443-B, iID®-L	

Overview – TELID®200 HF – NFC compatible
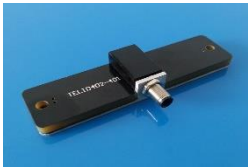
TELID® Type	Picture	Product code	Technicals	Remarks
TELID®210.m-D14 Temperature Sensor TAG		**12.210.114.100**	Design D14, 14 mm diameter Temperature Range: -40°C…+125°C ISO15693/ NFC-V / NFC tag type 5	Available for on metal Application
TELID®211.m-D14 Temperature Sensor TAG		**12.211.114.100**	Design D14, 14 mm diameter Temperature Range: -55°C…+150°C ISO15693/ NFC-V / NFC tag type 5	High accuracy ± 0.1°K
TELID®210.m-D24 Multi Sensor TAG		**12.210.454.100**	Design D24S, dimension: D24x3 mm Temperature Range: -40°C…+125°C ISO15693/ NFC-V / NFC tag type 5	Available for on metal Application
TELID®210.m-D24 Multi Sensor TAG		**12.210.554.100**	Design Q43S, dimension: 43x27x4 mm Temperature Range: -40°C…+125°C ISO15693/ NFC-V / NFC tag type 5	Available for on metal Application
TELID®212.nfc Temperature Sensor TAG		**13.212.714.10**	Design Q43S, dimension: 43x27x4 mm Temperature Range: -30°C…+65°C ISO14443A, NFC compatible	

Overview – TELID®200 HF – NFC compatible

TELID® Type	Picture	Product code	Technicals	Remarks
TELID®232.nfc Humidity Sensor TAG		**13.232.714.10**	Design Q43S, dimension: 43x27x4 mm Relative Humidity: 0 … 100% RH Temperature Range: -30°C…+65°C ISO14443A, NFC compatible	
TELID®257 Moisture Sensor TAG		**12.257.114.00**	Dimension: 25x30x3mm, pin 120x15x1.5 mm capacitive measurement of VWC Resolution: 1% ISO14443A, NFC compatible	app "TELID®257.nfc FLOWERpot" available in Google™ Play store click here...
TELID®290.m-D14 Multi Sensor TAG		**12.290.114.100**	Design D14, dimension: D14x3 mm Temperature Range: -40°C…+85°C Relative Humidity: 0%RH … 100%RH Pressure Range: 300 hPa … 1100 hPa ISO15693/ NFC-V / NFC tag type 5	on request
TELID®290m-D24 Multi Sensor TAG		**12.290.454.100**	Design D24S, dimension: D24x3 mm Temperature Range: -40°C…+85°C Relative Humidity: 0%RH … 100%RH Pressure Range: 300 hPa … 1100 hPa ISO15693/ NFC-V / NFC tag type 5	Available for on metal Application
TELID®290m-Q43 Multi Sensor TAG		**12.290.554.100**	Design Q43S, dimension: 43x27x5mm Temperature Range: -40°C…+85°C Relative Humidity: 0%RH … 100%RH Pressure Range: 300 hPa … 1100 hPa ISO15693/ NFC-V / NFC tag type 5	Available for on metal Application

Technical data is subject to change. Please see related data sheet.

Overview – TELID®400 UHF – project types

TELID® Type	Picture	Product code	Technicals	Remarks
TELID®412.Q72 Temperature Sensor TAG		**16.412.333.00**	Design Q72, dimension: 70x18x4 mm Temperature Range: -40°C…+160°C	For temperature application, moving objects, short measurement time
TELID®412.Q10100 Temperature Sensor TAG			Design Q10100, dimension: 10x100x3 mm Temperature Range: -30°C…+65°C	Only for projects
TELID®402.1i Digital InputTAG		**16.402.125.01**	Design Q72, dimension: 70x18x10 mm Binder M5 connector, 1 digital input	Only for projects
TELID®472.Q72 1D Magnetic Field Sensor TAG		**16.472.124.11**	Design Q72, dimension: 70x18x5 mm Reed sensor, Switch level: 1.8 – 4.5 mT	For proximity sensing

TELID® Sensor Data Loggers

TELID® sensor data loggers are ideal for complex monitoring of quality assurance and maintenance, or while transporting foods, plants, pharmaceuticals or medical products. Temperature, humidity, pressure or shock-sensitive products can be monitored and traced, for example, during worldwide transportation.

A battery, non-volatile memory and a password-protected real-time clock ensure the data is recorded reliably. Depending on the product version and the usage profile, TELID® sensor data loggers have a service life of up to 5 years. Due to the contactless RFID interface, the loggers are highly reliable and have very high data security and robustness.

Overview – TELID®311, 343

TELID® Type	Picture	Product code	Technicals	Application Field / Remarks
311-125°		14.311.484.04	Temperature Range: -30°C…+125°C Accuracy: +/- 0.5 K … +/- 2.0 K Samples: 8000 Sample time: 10 s … 256 min	**Disinfection, washing and drying processes**
343.HTK		14.343.439.103	Pressure Range: 0 .. 3 bar / 100 bar Temperature Range: -25°C…+100°C Samples: up to 8000 Sample time: >1min (others on request)	**Disinfection and washing processes**
311.ac		14.311.486.00	Temperature Range: -30°C…+140°C Accuracy: +/- 0.5 K … +/- 2.0 K Samples: 8000 Sample time: 10 s … 256 min	**Steam sterilization autoclave**
311.ace		14.311.499.00	External sensor Temperature Range: -30°C…+140°C Accuracy: +/- 0.5 K … +/- 2.0 K Samples: 8000 Sample time: 10 s … 256 min	**Steam sterilization autoclave**
311.cry		on inquiry	External sensor Temperature Range: -80°C…+140°C Accuracy: +/- 0.5 K … +/- 2.0 K Samples: 8000 Sample time: 10 s … 256 min	**Cryo and Deep-Frozen goods**

Overview – TELID®3x2

TELID® Type	Picture	Product code	Technicals	Application field / Remarks
312		14.312.710.00	Temperature Range: -30°C…+65°C Accuracy: +/- 0.5 K … +/- 2.0 K Samples: 8000 Sample time: 10 s … 256 min IP67	Transport of goods as well medicines, pharma
322.3D		14.322.102.00	3D Shock Range: -8 g…+8 g Up to 170 vibration events Memory: 256 kbit IP67	Shock event logger, Transport of hazardous and sensitive material, Event monitoring
332		14.332.709.00	Humidity Range: 0 … 100% RH Temperature Range: -30°C…+65°C Sample time: 1 min … 256 min Approx. samples: 4000 IP67	Transport of goods as well medicines, pharma
342		14.342.709.00	Pressure Range: 10 mbar … 1200 mbar Accuracy: +/- 2.5 mbar Approx. samples: 12000 IP67	Not for new projects

Overview – TELID®3x2.nfc

TELID® Type	Picture	Product code	Technicals	Remarks
312.nfc		**14.312.714.00**	Temperature Range: -30°C…+65°C Accuracy: +/- 0.5 K … +/- 2.0 K Samples: 8000 Sample time: 10 s … 256 min	Transport of goods as well medicines, pharma
332.nfc		**14.332.714.00**	Humidity range: 0 … 100% RH, Temperature range: -40°C… 65°C Samples: approx 4000 Sample time: 1 min … 256 min	Transport of goods as well medicines, pharma
392.nfc		**14.392.714.10**	Humidity: 0 … 100% RH, Pressure: 300 hPa… 1100 hPa Temperature: -40°C… 85°C Memory: 32 kbit	NFC interface, multi sensor logger

TELID® - smart sensor beacons

for predictive maintenance, condition and quality monitoring

Identify • Measure • Evaluate

Overview– TELID®700

TELID® Type	Picture	Product Code	Technicals	Application field / Remarks
TELID®710-T48P		**14.710.811.000**	Temperature Range: -25°C…+60°C Resolution: 0.0625 D48 x 11 mm IP68 Poly Carbonate BLE	On metal and nonmetal surfaces, self-adhesive glue pad Replaceable battery
TELID®710-T64P		**14.710.821.000**	Temperature Range: -25°C…+60°C Resolution: 0.0625 D64 x 11 mm IP68 Poly Carbonate BLE	On metal and nonmetal surfaces, screwing holes, Replaceable battery
TELID®710-D30P		**-** **(in development)**	Temperature Range: -25°C…+120°C Resolution: 0.0625 D30 x 12 mm IP68 Peek BLE	On metal and nonmetal surfaces, integrated Lithium battery
TELID®740-D30MP		**14.742.450.00** **14.743.450.00**	Pressure Range:0 … 30bar IP68 BLE	fluid level measurement of tanks and containers

iID®contactless Mobile Readers

microsensys offers a wide range of smart hand-held RFID read/write devices. The devices are characterized by their small size, their ergonomic design and handy operation. Manually handling the devices are very useful for many applications if, for example, a particular RFID transponder is selected out of many closely spaced transponders or a direct statement of intent is required.

With integrated battery, a low weight and a clear, structured design, the devices convinces in handling processes. The battery life of the mobile readers covers one working shift in standard processes and needs only a few hours to recharge.

All mobile readers have a Bluetooth™ interface for wireless connection with PCs, smartphones and tablets.

Overview – *iID®contactless Mobile Readers*

TELID® Type	Picture	Product code	Technicals	Remarks
iID®PENsolid HF,UHF		**43.72.850** **43.72.851** **73.72.750** **73.72.751**	Interface: Bluetooth™2.0 SPP/HID, micro USB Output: LED, Buzzer Operation modes: DOC, SPC Buttons: ON/OFF, SCAN Operation distance: 0…5 cm Dimensions: 117x27x19(23) mm	Special ergonomic pen design, pen tip for touch screens
iID®POCKETwork HF,UHF		**41.12.820** **41.32.820** **72.62.525** **72.62.720** **72.72.720**	Interface: Bluetooth™2.0 SPP/HID, micro USB Output: Display, Buzzer Operation modes: DOC, SPC, MPC Buttons: SCAN, F1, F2 Operation distance: 0…80 cm Dimensions: 86x54x10 mm	Stand alone device with integrated memory and clock for data collection, available for LEGIC®
iID®wearable UHF		**49.82.860**	Interface: Bluetooth™4.0 BLE SPP, USB-C Output: LED, Buzzer, Vibration Operation modes: DOC, SPC Buttons: ON/OFF Operation distance: 0…150 cm Dimensions: 86x54x10 mm	Different profile availibe for configuration of operation range

iID® contactless Desktop

microsensys offers several smart RFID read/write devices for office applications. These read/write devices are characterized by their small size and ease of use. Office applications can usually be identified by having a transponder that is managed manually for the RFID read/write device, for example, to free up access or to program or read an RFID data logger.

A personal computer is usually used as HOST whose USB interface is ideal for connecting these stationary RFID read/write devices. The supplied drivers enable system houses to implement easily into the respective system solution.
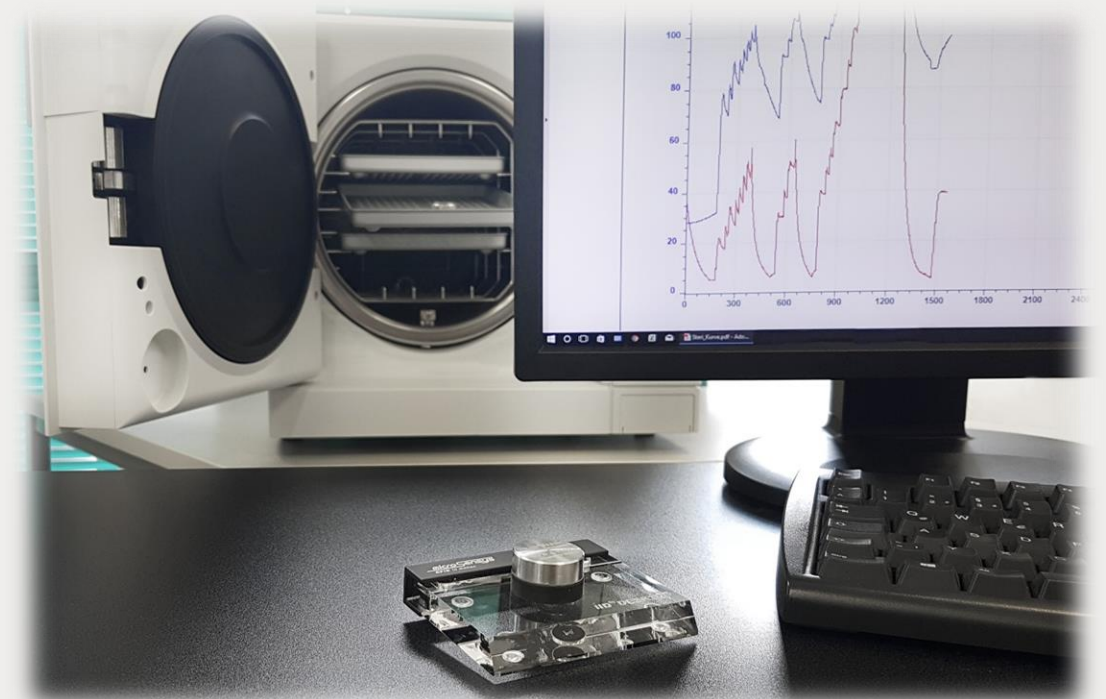
Overview – *iID®contactless Desktop*

TELID® Type	Picture	Product code	Technicals	Remarks
iID®PENmini HF		**74.79.720**	Interface: USB 2.0 Display: LED Operation modes: DOC, SPC Operation distance: 0…40 mm Dimensions: L130 x D12 mm	Special ergonomic pen design
iID®DESKTOPsmart HF		**35.29.551** **35.29.701**	Interface: micro USB Display: LED Operation modes: DOC Operation distance: 0…50 mm Dimensions: 86x54x10 mm	Designed for TELID® data logger application, available for LEGIC®
iID®STICK HF		**37.29.500** **37.29.550**	Interface: USB 2.0 Operation modes: DOC Operation distance: 0…50 mm Dimensions: 45(57)x20x10 mm	Works only based on LEGIC® platform

iID®contactless INDUSTRY Readers

microsensys offers different RFID read/write devices in sturdy casing for industrial use. These read/write devices are characterized by an increased IP protection class and practical mounting devices. Industrial applications are generally characterized by transponders that are managed automatically via an RFID read/write device in order to detect an object or to read out or write on corresponding data of transponder memory.

To always allow for an optimum solution, microsensys also provides suitable HOST devices for these applications which multiple RFID read/write devices can put together in a bus system and thus significantly simplify implementation for the system integrator.

Overview – iID®contactless Readers

TELID® Type	Picture	Product code	Technicals	Remarks
iID®HEAD M18 HF		52.31.700 52.37.700	Interface: RS232, P-CAN Operation modes: DOC, SPC Operation distance: 0…30 mm Dimensions: L78.5 x D18 mm	USB Adapter available
iID®HEAD M30 HF, UHF		73.26.820.00 73.26.820.10 78.99.700.00 78.96.700.00	Interface: RS232 TTL, USB Operation modes: DOC, SPC Operation distance: HF 0…5 cm/UHF 0…1,5 m Dimensions: L68 x D30 mm	UHF version available for FCC
iID®INDUSTRY 0906 HF, UHF		56.69.700 56.63.700 46.29.830 46.23.830	Interface: Ethernet, USB, P-CAN, RS232 Output: LED, 2xOUT signal Operation modes: DOC, SPC Operation distance: HF 0…5 cm/UHF 0…3 m Dimensions: 96x66x30 mm	LEGIC® platform available
iID®INDUSTRY 0906ext UHF		46.29.850 46.23.850 46.21.850 46.20.850	Interface: Ethernet, USB, P-CAN, RS232 Output: LED, 2xOUT signal Operation modes: DOC Operation distance: 0…10 m Dimensions: 96x66x30 mm	2x50 Ω connector for external antenna, multiplexed
iID®INDUSTRYpro8 UHF		44.09.850 44.03.850 44.07.850 44.01.850	Interface: Ethernet, USB, P-CAN, RS232 Output: LED, 2xOUT signal Operation modes: DOC Operation distance: 0…10 m Dimensions: 96x66x30 mm	8x50 Ω connector for external antenna, multiplexed

Technical data is subject to change. Please see related data sheet.

iID®contactless Reader Modules

microsensys offers a wide range of miniaturized and high-performance RFID OEM modules. These modules perform basically the same function as a read/write device but can easily be integrated by the user into their own devices.
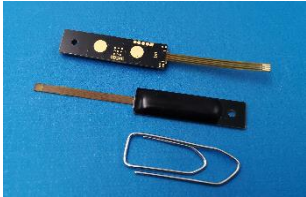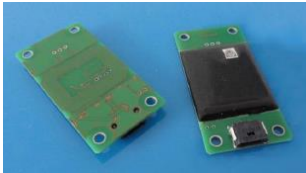
The RFID antenna is usually already included in the OEM modules, which means the space required for these modules is very small and the modules can easily be mounted. For integration into hand-held computers from different manufacturers, especially adapted OEM modules have been developed which are mechanically and electronically tailored to the handheld computer.

OEM modules are best suited for applications such as industrial automation, product and process control, tool management, tracking, or general product labelling.

Overview – *iID®contactless Modules*

TELID® Type	Picture	Product code	Technicals	Remarks
iID®module UNI13.700 HF		**25.29.700.00** **25.26.700.00**	Interface: USB 2.0 / RS232 TTL Antenna: printed 25 x25 mm² Operating distance: 0...50 mm Dimensions: approx. 55 x 28 x 12 mm³	Base module for customized OEM solution
iID®module Q8 HF			Interface: UART / I2C Antenna: printed 7 x 7 mm² Operation distance: 0...20 mm Dimensions: 32 x 8 x 2 mm³	Miniaturized module for customized OEM solution
iID®module U70 HF		**23.66.700.00** **23.68.700.00**	Interface: RS232 TTL / I2C Antenna: printed 25 x25 mm² Operating distance: 0...50 mm Dimensions: 52 x 26 x 5 mm³	Base module for customized OEM solution

![microsensys - make things wireless]

iID®Software and Tools

As a manufacturer of components, **microsensys** provides many different software tools and applications for its products to run your project quickly and effectively. Client specific requirements and software can be developed on a base of standard product.

For system integrators microsensys provides well documented libraries in order to realize custom applications.
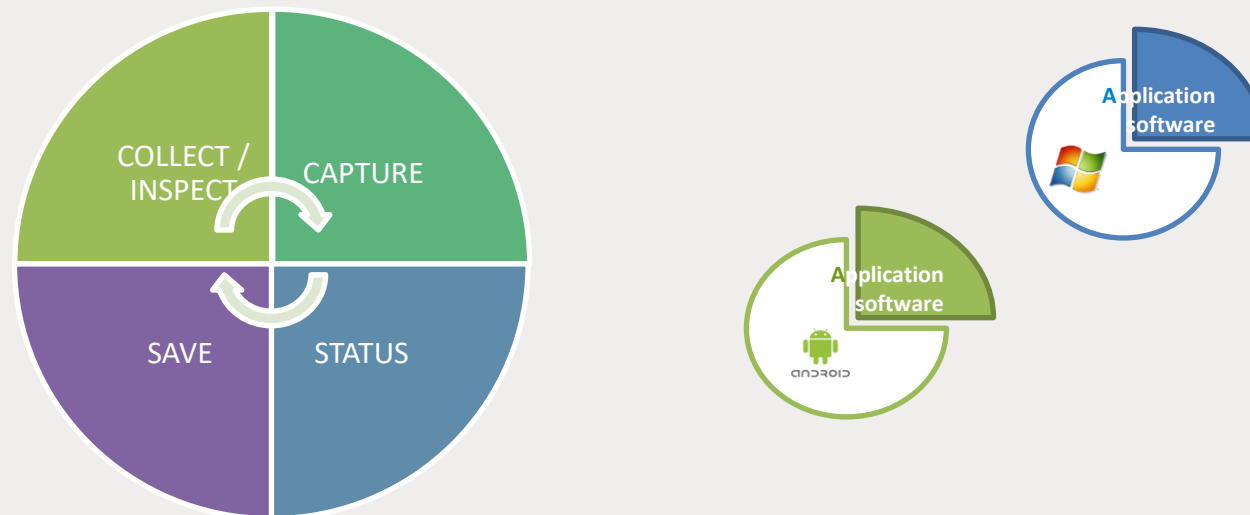
Overview – *iID® Software and APPs*

Name	Description	Compatibility
iID® INIT tool	■ program user memory of RFID transponders ■ individual field configuration ■ data import from csv files and file logging	■ all iID® read / write interfaces ■ all iID® transponders with user memory ■ Microsoft Windows
iID® INIT tool NFC	■ program user memory of NFC transponders ■ individual dataset configuration based on NDEF records ■ data import from csv files and file logging	■ all iID® read / write interfaces ■ all iID® NFC compatible transponders with user memory ■ Microsoft Windows
iID® DATAcollector	■ collect ID and sensor data using your smart device ■ includes time and geo data ■ access your sensor data in iID®cloud	■ all iID® transponders (HF / UHF / NFC) ■ all TELID® sensor transponders ■ all TELID® loggers (HF / UHF / NFC)* ■ works with device integrated NFC functionality or mobile read / write interface ■ ready for Android

*) in development or on request
Technical data is subject to change. Please see related data sheet.

Overview – *TELID®Software and APPs*

Name	Description	Compatibility
TELID®soft	▪ start / stop sensor data logger ▪ set individual settings for data logger ▪ Programming, evaluation and reporting of TELID® sensor logger data	▪ all iID® read / write interfaces ▪ all TELID® sensor data loggers ▪ Microsoft Windows
TELID®soft NFC	▪ set up NFC data logger ▪ programming and evaluation of TELID® data loggers ▪ allows individual settings for each logger	▪ all TELID® NFC sensor data loggers ▪ ready for Android
TELID® level sens	▪ receive measurements and calculates water level of containers or tanks ▪ graphical water level view ▪ manage monitored containers and tanks and beacon relationships	▪ TELID® 740 sensor beacons ▪ ready for Android

*) in development or on request
Technical data is subject to change. Please see related data sheet.

Overview – *iID® Tools and Demos*

Name	Description	Compatibility
iID®connect tool	- general tool for communication interface definition - test reader connection with host device - standard tools and demos use defined interface	- all iID® read / write interfaces - Microsoft Windows
iID®config tool	- tool for read/write interface parameter configuration and device maintenance - configure script functionality and download scripts - for Bluetooth devices: set type of connection	- all iID® read / write interfaces - Microsoft Windows
iID®DEMOsoft	- scan every type of HF/UHF RFID/NFC TAG - read / write TAG memory - interact with sensor TAGs	- all iID® read / write interfaces - all transponder types and sensor transponders - TELID®200, 400 - Microsoft Windows - Android

*) in development or on request
Technical data is subject to change. Please see related data sheet.

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