

# PRODUCT DATASHEET

iID<sup>®</sup> Transponder

## SCREW-TAG brass

HF-RFID transponder integrated in metal screw

- passive RFID communication 13.56 MHz
- standard metal screw with integrated TAG
- different screw sizes SW 14 and SW17
- designed for simple part tagging, on metal
- water meter tagging
- high memory available

These transponder devices are an integral part of *microsensys* iID<sup>®</sup> system solution.

This TAG operates with *microsensys* standard RFID reader components and high sensitive demodulators.



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RFID in motion

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This data sheet is subject to change  
contact *microsensys* for latest information

SCREW-TAG brass 003

<b>RFID Technology:</b>	closed coupling RFID system iID <sup>®</sup> 2000/3000, based on ISO 15693, ISO 14443, ISO 18000-3
<b>Chip Type:</b>	iID-G, iID-M, iID-K others on request
<b>Carrier Frequency:</b>	13.56 MHz
<b>Data Rate:</b>	26.4 kbps or 106 kbps
<b>Communication Distance:</b>	0 ... 5 mm dependent on reader antenna, chip type and metal environment
<b>Memory:</b>	EEPROM endurance >100.000 cycles, data retention > 10 years UID, OPT possible
<b>Memory Capacity:</b>	2 kbit, 16 kbit and 64kbit available
<b>Special Functionality:</b>	see data sheet of chip manufacturer
<b>Operating Temperature:</b>	-25°C ... +65°C
<b>Storage Temperature:</b>	-25°C ... 85°C, max. +100°C
<b>Dimensions:</b>	hexagon socket screw plugs SW14: total length approx. 13mm, thread M10x1 (6mm length), spanner width SW14 SW17: brass screw 1/8", DIN 910 other dimensions on inquiry
<b>TAG Packaging:</b>	black EPOXY with ferrite, integrated in screw head (SW14 convex, SW17 concave)
<b>Mounting Instructions:</b>	no special requirements
<b>Marking:</b>	no marking optional: laser printing or tampon print
<b>Appropriate RFID Reader:</b>	PEN reader POCKET reader others on inquiry with RS232TTL, USB or Bluetooth interface with USB and Bluetooth interface especially for mobile data capture
<b>HOST Command Set:</b>	see actual API documentation of <i>microsensys</i> iID <sup>®</sup> driver engine or data sheets of silicon chip manufacturer
<b>Software:</b>	different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de

<b>Type :</b>	<b>15.32.</b>	<b>15.54.</b>	<b>15.26.</b>	<b>.811</b>	<b>.812</b>	
<b>Chip Type:</b>	iID-M	iID-G	iID-K			
<b>Standard:</b>	ISO15693	ISO15693-2	ISO14443B			
<b>Memory:</b>	2 k	16 k	64 k			bit
<b>Screw Size:</b>				SW14	SW17	mm