

# PRODUCT DATASHEET

iID<sup>®</sup>Transponder

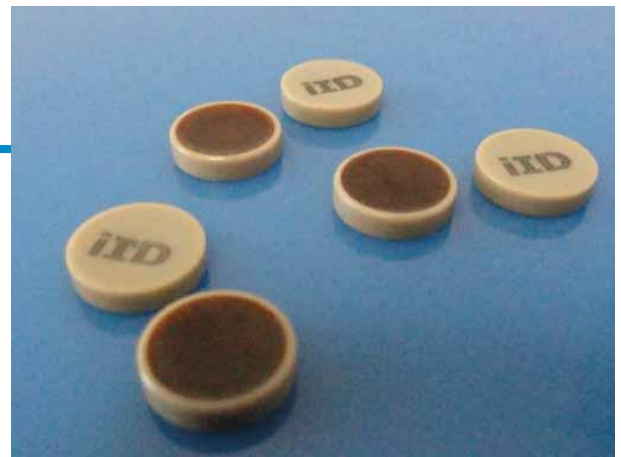
## MINI-TAGst 8.5

### HF-RFID transponder, for high temperature

- passive RFID communication 13.56 MHz
- round TAG, diameter 8.5 mm
- PEEK packaging
- up to 32 kbit memory
- designed for medical application

This transponder device is an integral part of *microsensys*iID<sup>®</sup> system solutions.

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



*microsensys* GmbH  
In der Hochstedter Ecke 2  
D 99098 Erfurt

**microSensys**  
RFID in motion

TEL +49-361-59874 0  
E-MAIL info@microsensys.de  
FAX +49-361-59874 17  
WEB www.microsensys.de

This data sheet is subject to change  
Contact us for latest information

MINI-TAGst85-01.docx

<b>RFID Technology:</b>	closed coupling RFID system iID <sup>®</sup> 2000, ISO 15693	
<b>Chip Type:</b>	iID <sup>®</sup> -M, iID <sup>®</sup> -G others on request	
<b>Carrier Frequency:</b>	13.56 MHz	
<b>Communication Rate:</b>		down link 26.4
<b>Communication Distance:</b>	0 ...10 mm	dependent on reader antenna, chip type and environment
<b>Memory:</b>	EEPROM	endurance >100.000 cycles, data retention > 10 years
<b>Memory Capacity:</b>		2 kbit, 16 kbit and 32 kbit 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 ... 150°C	long term max. +85°C, short time 180°C
<b>Dimensions:</b>	D 8.4 +/-0.1 mm, TH 2.0 +/-0.1 mm	
<b>Packaging Material:</b>	PEEK, back side epoxy	autoclave resistant epoxy
<b>Mounting Instructions:</b>	recommended glue: 2K-EP "plus endfest 300" UHU GmbH Germany	
<b>Marking:</b>	laser printing	
<b>Appropriate RFID Reader:</b>	PEN reader	with RS232TTL, USB or Bluetooth interface, for PDA with Compact Flash Card interface
	POCKET reader	with USB and Bluetooth interface especially for mobile data capture
	UNI13 or Q10	13.56 MHz read write module, for <i>microsensys</i> OEM partner only
<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>15.36.342.00</b>	<b>15.54.342.00</b>	
<b>Chip Type:</b>	iID-M	iID-G	
<b>Standard:</b>	ISO 15693	ISO 15693-2	
<b>Memory:</b>	2,000	16,000	bit
<b>Communication Rate:</b>	26.4	26.4	kbitps
<b>Communication Distance:</b>	5	5	mm
			measured with PENmini