

PRODUCT DATASHEET

iID[®] Transponder

SEG-TAG 16k

HF-RFID transponder, miniaturized packaging

- passive RFID communication 13.56 MHz
- half lens form, maximum thickness 1.3 mm
- especially for medical instrument tagging
- sterilization and autoclaving proofed
- TAG on metal possible

This transponder device is an integral part of *microsensys* iID[®] system solutions.

This TAG operates with *microsensys* standard RFID reader components and high sensitive demodulators. It is especially designed for tagging of metal objects and using in autoclaving processes.

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microSensys
RFID in motion

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

SEG-TAGsteri 16k 02

RFID Technology:	closed coupling RFID system iID [®] 2000	
Chip Type:		iID [®] G, iID [®] H, mic3 [®] ISO 15693-2
Carrier Frequency:	13.56 MHz	
Communication Rate:		down link approximately 26.4 kbps
Communication Distance:	0 ... 2 mm	dependent on reader antenna and metal environment
Memory:	EEPROM	data retention > 10 years
Memory Capacity:		16 kbit read write, unique ID
Special Functionality:		security possible
Operating Temperature:	-25°C ... +65°C	
Storage Temperature:	-45°C ... +120°C	
	type 10.54.543:	short time and cycle stress up to 2.5 bar and 134°C possible max. 500 sterilisation or autoclaving cycles, tested with KSG 110
Dimensions:	approx. 2.5 x 3.0 mm ² , TH 1.25 mm,	half lentil case
Packaging Material:	EP-HT medical, EP filling hermetically encapsulated, especially for sterilisation or autoclaving processes	
Mounting Instructions:	type 10.54.552:	direct using on metal possible
	type 10.54.543:	designed for surgical instruments with diameter of 2.5 mm no marking
Marking:		
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface,
	PLANE reader	with USB interface
	UNI13	13.56 MHz read write module for <i>microsensys</i> OEM partner only
HOST Command Set:		see actual API documentation of <i>microsensys</i> iID [®] driver engine
Software:		different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de

Type :	10.54.552*	10.54.543	*) on inquiry
Chip Type:	iID-H	iID-H	
Packaging:	not for medical	EP-HT medical	
Memory:	16.000	16.000	bit
Communication Distance:	-	1.5 on metal	mm

measured with PEN USB, K3 antenna