

PRODUCT DATASHEET

iID® RFID Transponder



D14-TAGspecial ATEX

13.56 MHz transponder for industrial applications in harsh environmental conditions:

- part and equipment tagging
- high memory and sensors available
- TAG on metal possible
- certified for ATEX zone 1 and zone 2

This transponder package is available with different chip types. They are integral part of *microsensys* iID system solutions. Lens-shaped transponder devices are very useful for product identification in industry and administration especially for tagging of metal objects.

microsensys offers an attractive component platform for close coupling RFID solutions.

microsensys
RFID in motion

copyright by microsensys
this data sheet is subject to change
microsensys GmbH – In der Hochstedter Ecke 2 - D 99098 Erfurt
TEL +49-361-598740
contact us for latest information
MAIL info@microsensys.de

Carrier Frequency:	13.56 MHz
Technology:	RFID system iID®2000 or iID®3000, close coupling, based on ISO 15693 or ISO 14443B
Memory:	endurance >100.000 cycles, data retention >10/50 years, ID-No and user OTP possible
Comm. Distance:	up to 20 mm, dependent on reader antenna and metal environment
Dimensions:	approx. D 15 mm, max. TH 2.5 mm
Packaging Material:	chip in multi ferrite layer epoxy packaging, front side black EP, hermetic encapsulation
Mounting Instructions:	direct use on metal possible
Marking:	standard laser printed, optional single-colour tampon printing
Operating Temperature:	-25°C ... +85°C
Storage Temperature:	-45°C ... +125°C (180°C for short time)
Appropriate RFID Reader:	PEN reader, UNI13, POCKET mini, CFC reader, M30 HEAD and more
HOST Command Set:	see current API documentation of <i>microsensys</i> iID driver engine or data sheets of silicon chip manufacturer

TAG Types	12.32.550.50	12.47.550.50	12.53.550.50	
System:	ISO 15693	ISO 15693	ISO 15693-2	
Chip Type:	iID-M	SLIX-S	iID-G	
Memory Capacity	2k EEPROM	1.3k EEPROM	16k EEPROM	bit
Data Retention	>10	>50	>10	years
Comm. Rate	26.4	26.4	26.4	kbps
Comm. Distance	10	10	10	mm

measured with P13 reader antenna type, *) on inquiry

