

# PRODUCT DATASHEET

iID<sup>®</sup> Transponder

## D14-TAGspecial V6

HF-RFID transponder for integration in metal plates, for harsh environmental conditions and long life applications

- passive RFID communication 13.56 MHz
- round TAG, diameter approx. 15 mm
- EPOXY packaging
- for mounting in metal surface or top on metal
- 2 k or 16 kbit EEPROM memory, special chip type with 30 years data retention
- designed for part and equipment tagging

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



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

D14sp V6 003

<b>RFID Technology:</b>	closed coupling RFID system iID <sup>®</sup> 2000 based on ISO 15693	
<b>Chip Type:</b>		iID <sup>®</sup> -G, iID <sup>®</sup> -N others on request
<b>Carrier Frequency:</b>	13.56 MHz	
<b>Communication Rate:</b>		down link 26.4 kbps
<b>Communication Distance:</b>	0 ... 15 mm	dependent on reader antenna, chip type and metal environment
<b>Memory:</b>	EEPROM	endurance >100.000 cycles, data retention > 10 years or data retention > 30 years up to 10 kbit EEPROM available see data sheet of chip manufacturer
<b>Memory Capacity:</b>		
<b>Special Functionality:</b>		
<b>Operating Temperature:</b>	-25°C ... +55°C	
<b>Storage Temperature:</b>	-45°C ... 100°C	long term max. +55°C, short time +125°C
<b>Dimensions:</b>	approx. D 15 mm, max. TH 2.5 mm	
<b>Packaging Material:</b>	EPOXY, front side	back side: mixed ferrite epoxy hermetical encapsulation
<b>Mounting Instructions:</b>		using flat in metal possible direct using in metal plates with D15 mm hole
<b>Marking:</b>	laser printing possible	
<b>Appropriate RFID Reader:</b>	PEN reader POCKET reader UNI13 or M30 HEAD	with RS232TTL, USB or Bluetooth interface with USB and Bluetooth interface especially for mobile data capture read write module, for microsensys OEM partner only
<b>HOST Command Set:</b>	see actual API documentation of microsensys iID <sup>®</sup> driver engine or data sheets of silicon chip manufacturer	

<b>Type :</b>	<b>12.63.550.60</b>	<b>12.61.550.60</b>	<b>12.37.550.60*</b>	*) on inquiry
<b>Chip Type:</b>	my-D	my-D	iID-Q2	
<b>Standard:</b>	ISO 15693	ISO 15693	ISO 15693	
<b>Memory:</b>	2	10	2	kbit
<b>Data Retention:</b>	10	10	30	years
<b>Communication Distance:</b>	10	10	10	mm
				measured with P13 antenna (UNI13)