

# PRODUCT DATASHEET

iID<sup>®</sup> Transponder

## D6-TAG

### HF-RFID coin size transponder, for industrial environmental conditions

- passive RFID communication 13.56 MHz
- round TAG, diameter 6 mm
- EPOXY packaging
- for mounting on nonmetal objects
- 1.6kbit user memory
- data retention 60 years
- designed for item and object tagging

These transponder devices are an integral part of microsensys iID<sup>®</sup> system solutions. They are working optimal with microsensys standard RFID reader components and high sensitive demodulators.



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

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<b>RFID Technology:</b>	closed coupling RFID	system iID <sup>®</sup> 2000, ISO 15693, ISO18000-3
<b>Chip Type:</b>		iID <sup>®</sup> P (EM type)
<b>Carrier Frequency:</b>	13.56 MHz	
<b>Communication Rate:</b>		down link 26.4 kbps or 106 kbps
<b>Communication Distance:</b>	0 ... 20 mm	dependent on reader antenna and metal environment
<b>Memory:</b>	EEPROM	endurance >10 <sup>5</sup> cycles, data retention 60 years
<b>Memory Capacity:</b>		1664bit
<b>Operating Temperature:</b>	-25°C ... +85°C	
<b>Storage Temperature:</b>	-45°C ... +125°C	short time 150°C (1h)
<b>Dimensions Type B .100:</b>	approx. D 6.0 mm, TH 1.5 +/-0.3 mm,	half lentil form, one side
<b>Type C .200:</b>	approx. D 6.0 mm, TH 2.5 +/-0.5 mm,	lentil form, both sides
<b>Packaging Material:</b>	EPOXY	FR4 substrate EPOXY material in black, other colours on inquiry
<b>Mounting Instructions:</b>		not using on or flat in metal Type .100: plane side on ground recommended glue: see application note
<b>Marking:</b>	laser printing on inquiry	
<b>Appropriate RFID Reader:</b>	PEN reader POCKET reader UNI13, Q10 or Q9	with RS232TTL, USB or Bluetooth interface, with Bluetooth interface, especially for mobile data capture 13.56 MHz 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>Software:</b>	different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de	

<b>Type:</b>	<b>11.35.100 or .200</b>	
<b>Chip Type:</b>	iID-P	
<b>RF Standard:</b>	ISO 15693 / 18000-3	
<b>User Memory:</b>	1.6k E <sup>2</sup> PROM	
<b>Data Retention:</b>	60	years
<b>Commun. Rate:</b>	26.4	kbps