PRODUCT DATASHEET

iID® 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
- plastic packaging, back side EPOXY sealing
- for mounting in metal surface or top on metal
- 2 k or 16 kbit EEPROM memory, special chip type with 50 years data retention
- designed for part and equipment tagging

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

microsensys GmbH
In der Hochstedter Ecke 2
D 99098 Erfurt

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

microSensys RFID in motion

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

RFID Technology:	closed coupling RFID system iID®2000 based on ISO 15693	
Chip Type:		SLI, SLIX, my-D, iID®Q2 others on request
Carrier Frequency:	13.56 MHz	
Communication Rate:		down link 26.4 kbps
Communication Distance:	0 ... 15 mm	dependent on reader antenna, chip type and metal environment
Memory:	EEPROM	endurance >100.000 cycles, data retention > 10 years or data retention > 50 years
Memory Capacity:		up to 10 kbit EEPROM available
Special Functionality:		see data sheet of chip manufacturer
Operating Temperature:	-25°C ... +55°C	
Storage Temperature:	-40°C … +100°C	long term max. +55°C, short time +125°C
Dimensions:	approx. D 15 mm, max. TH 3.0 mm	
Packaging Material:		front side: plastic, back side: epoxy hermetical encapsulation
Mounting Instructions:		mounting in metal or non-metal environment direct using in metal plates with D15 mm hole
Marking:		optional laser printing
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface
	POCKET reader	with USB and Bluetooth interface especially for mobile data capture
	UNI13 or M30 HEAD	read write module, for microsensys OEM partner only
HOST Command Set:	see actual API documentation of microsensys iID® driver engine or data sheets of silicon chip manufacturer	

Type :	**12.47.550.60**	**12.44.550.60***	**12.451.550.60**	*) on inquiry
Chip Type:	SLIX-S (D12)	SLI-S (D11)	SLIX2 (D12)	
Standard:	ISO 15693	ISO 15693	ISO 15693, NFC	
User Memory:	1.28	2	2.5	kbit
Data Retention:	50	10	50	years
Communication Distance:	15	8	15	mm

measured with P13 antenna (UNI13)