

D14-TAG

DM 12.00.100 / .200

**13.56 MHz transponder,
from 64bit read only
up to 256kbit EEPROM read write,
in mid size lens or half lens form**

This transponder package is available with different chip types based on ISO 15693 or 14443. They are integral part of *microsensys* iID system solution.

Lens form transponder devices are very useful for product identification in industry and administration.

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

picture: DM 12.53.100



Technology:

RFID system iID[®] 2000, iID[®] 3000
closed coupling, 13.56 MHz, based on ISO 15693 or ISO 14443

Memory:

read only type: laser programmed ROM
read write type: EEPROM, endurance >100.000 cycles,
data retention >10 years,
ID-No and user OTP possible

Carrier Frequency:

13.56 MHz

Communication Distance:

0 ... 50 mm, dependent on chip type, reader antenna and metal environment

Type :	12.06.100	12.32.100	12.53.100	12.21.100	12.27.100	
System:	no standard	ISO 15693	ISO 15693-2	ISO 14443B	ISO 14443B	
	TTF, iID2000	RTF, iID2000	RTF, iID2000	TTF, iID3000	TTF, iID3000	
Chip Type:	iID-N	iID-M	iID-G	iID-L	iID-L	
	EM4006	EM4135	-	-	-	
Communication Rate:	26.4	26.4	26.4	106	106	kbps
Memory Capacity:	64 RO	2k RW	16k RW	128 RW	256k RW	bit
Communic. Distance:	30	20	20	10	10	mm
	measured with P13 reader antenna type					

Packaging:

plastic package, back side EP GF, front side black EP (laser printed)

Dimensions Type .100:

D 13.8 +/-0.2 mm, max. TH 2.5 mm,

lens case, one side EP

Type .200:

D 13.8 +/-0.2 mm, max. TH 3.0 mm,

lens case, both sides EP

Mounting Instructions:

no direct using on metal

Operating Temperature:

-25°C ... +65°C

Storage Temperature:

-45°C ... +125°C

Appropriate RFID Reader:

PEN reader with RS232TTL, USB, CFC or Bluetooth interface,
CFC reader for PDA with Compact Flash Card interface
HEAD reader with RS232TTL, RS485 or USB for industrial application
INDUSTRY reader with RS232TTL or RS485 for industrial application
UNI13-Q40 RFID 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

glossary: OTP one time programmable, TTF tag talk first, RTF reader talk first, RW read/write, RO read only, RFID radio frequency identification, D diameter, TH thickness, EP epoxy, GF glass fiber reinforced