

PRODUCT DATASHEET

TELID® RFID Sensors

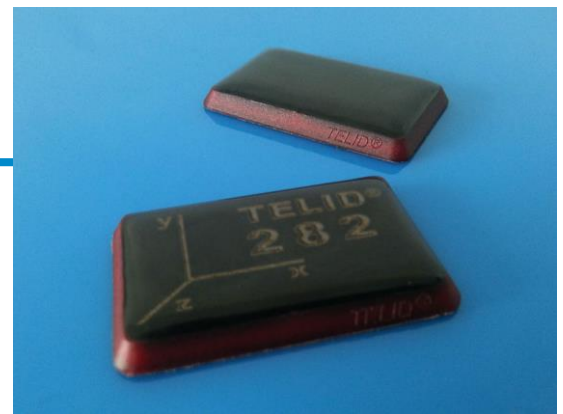
TELID® 232.nfc

RFID humidity transponder 13.56MHz

- passive sensor device with user memory
- humidity measurement 0%RH ... 100%RH
- non flexible hard TAG, Q43S, enabled for usage on metal
- contactless data communication ISO 14443A 2-3, NFC forum type 2 compliant

RFID Sensor TELID® devices are an integral part of *microsensys* iID® system solution. These devices are very useful for wireless sensor applications in industrial solutions, for quality check in food and pharma industry, for temperature check in maintenance processes and transport and logistics.

Usage of *microsensys* RFID interfaces brings you the best experience in TELID® operation.



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This data sheet is subject to change
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RFID Technology:	RFID system TELID®200	iID®3000 based on ISO 14443 2-3, NFC forum type 2
Chip Type:	NFC compatible	closed coupling HF sensor solution
Carrier Frequency:	13.56 MHz	
Communication Rate:	106 kbps	
Communication Distance:	0 ... 30 mm	depending on reader antenna and environmental conditions
Object Data Memory:	EEPROM	read write type, endurance >100.000 cycles, data retention 20 years
Static Memory:		parameters, calibration data, manufacturer OTP
Free Memory:		see version
Humidity Sensor:	capacitive CMOS sensor	
Working Range:	0%RH ... 100%RH	at 0°C ... +80°C
Resolution:	0.7%RH (8bit ADC)	
Accuracy:	+/- 3.0%RH +/- 7.0%RH	at 15°C ... +55°C and 25%RH ... 85%RH at 0°C ... +85°C and 0%RH ... 100%RH
Temperature Sensor:	semiconductor CMOS sensor	
Working Range:	-40°C ... +120°C	maximal
Resolution:	0.2°K (10bit ADC)	
Accuracy:	+/- 0.5°K +/- 1.0°K	at 0°C ... +60°C at -30°C ... +90°C
Thermal Time Constant:	5 ... 30s	depending on mounting technology
Operating Mode:	PASSIVE SENSOR	
Measure Modes:	ON LINE MEASUREMENT	
Basic Functions:		programming of sensor parameters and object data memory
Parameters:		calibration data (optional)
Battery:	no battery	
Working Temperature:	0°C ... +85°C	
Storage Temperature:	-40°C ... +120°C	maximum range
Dimensions:	43 x 27 mm², thickness max. 3.0 mm	Q43S
Packaging:		front side EP (black), back side PA 6.6 GF30
Marking:		laser printed product type on top, optional unique ID-No
Mounting Instruction:		adhesive on metal or nonmetal objects
Appropriate RFID Reader:	M30-HEAD industrial reader PEN mobile reader POCKET mobile reader NFC SMART PHONE	with RS232TTL or USB with RS232TTL, USB or Bluetooth with Bluetooth Windows and Android types
Software:	iID driver engine, iID DEMOsoft, TELID application software for Windows PC and mobile devices on inquiry	

Type :	13.232.714.00	13.232.714.10	13.232.754.10*	*) only on inquiry
Package Type:	non metal	non metal	on metal	
Filter Cap:	without cap	with cap	with cap	
Memory Capacity:	8	8	8	kbit