

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 412

RFID temperature transponder 868MHz

- passive sensor device
- temperature measurement -40°C ... +85°C, +/- 0.5 K
- non flexible hard TAG, package Q72, on metal possible
- contactless data communication ISO 18000-6C

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



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

TELID412-02

RFID Technology:	RFID system TELID®400	based on ISO 18000-6C
Chip Type:	different	long distance UHF sensor solution
Operating Frequency:	860 - 960 MHz	
Communication Rate:	up link 128 kbps, down link 640 kbps	
Communication Distance:	0 ... 50 cm	depending on reader antenna and environmental conditions
Object Data Memory:	EEPROM	read write type endurance >100.000 cycles, data retention > 10 years
Static Memory:		parameters, calibration data, manufacturer OTP
Free Memory:		see special type
Temperature Sensor:	semiconductor sensor	
Working Temperature:	-40°C +65°C	
Resolution:	0.5 K	
Accuracy:	+/- 0.5 K	at -10°C ... +20°C
	+/- 1.0 K	at -40°C ... +65°C
Thermal Time Constant:	approximately 1 min	mounted on object
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:	-40°C ... +65°C	
Storage Temperature:	-55°C ... +125°C	recommended 25°C
Dimensions:	70 x 18 mm², thickness max. 4 mm	
Packaging:		epoxy glass fiber enforced (black)
Marking:		laser printed product type on top, optional unique ID-No optional two color printing glue or plastic screws using on metal or on plastics possible
Mounting Instruction:		
Appropriate RFID Reader:	INDUSTRY reader CASIO IT-800	with RS232, P-CAN, Ethernet or USB with UHF reader module
Software:	TELID application software for Windows PC and mobile devices on inquiry	

Type :	16.412.303.00	16.412.336.00*	*) in development
Package:	epoxy FR4 (planar)	epoxy HT, globe top	
Temperature Range:	-40°C...+65°C	-20°C...+125°C (170°C)	
Memorv:	3 kbit EEPROM	64 kbit OTPROM	