PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 257

RFID moisture sensor transponder

- passive conductance sensor device
- slightly moist measurement for flowerpots
- flower label with sensor pin, 4 … 7 cm long
- contactless data communication based on ISO standard

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

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RFID Technology:	RFID system iID®2000/3000	
Chip Type:	iID-A, iID-L	closed coupling, 13.56 MHz, based on ISO 15693 / 14443B
Carrier Frequency:	13.56 MHz	
Communication Rate:	26 / 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 > 10 years
Static Memory:		parameters, calibration and user OTP possible
Free Memory:	2 kbit , optional: 256 kbit	

Conductivity Sensor:	gold plates	
Working Range:	1 mS ... 1 µS	on inquiry adjustable
		display in percent full scale
Resolution:	max. 10 bit	
Sample Rate:	max. 10 Hz	

Temperature Sensor:	semiconductor sensor		optional
Working Temperature:	0°C .... +40°C		
Resolution:	0. 5 K	**Accuracy:**	+/- 0.5 K
Thermal Time Constant:	approximately 1 min		

Operating Modes:	PASSIVE SENSOR	
Measure Modes:	ON LINE MEASUREMENT	
Basic Functions:	programming of sensor parameters and object data memory	
Parameters:		start delay
		calibration data (optional)

Battery:	no battery

Working Temperature:	-5°C ... +45°C	
Storage Temperature:	-10°C ... +60°C	recommended 25°C

Dimensions:	25 x 25 mm², approx. 3 mm, pin length 45 / 75 mm	
Packaging:		epoxy (black), front side white label
Marking:		one color print, optional unique ID-No
Weight:	-	

Appropriate RFID Reader:	POCKET reader	with USB or Bluetooth
	HEAD reader	with RS232TTL, RS485 or USB for industrial application
	Smart Phones	SAMSUNG Nexus

Software:	TELID application software for Windows PC and mobile devices on inquiry

Type :	257.245	257.275	*) in development
Package:	EPOXY black	EPOXY black	
PIN length:	45	75	mm
Working Range:	-	-	