

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 257.nfc

RFID/NFC moisture sensor transponder

- Moist measurement for flowerpots
- Label with sensor pin
- Contactless data communication based on NFC and ISO14443 standard

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



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RFID in motion

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

TELID257-02.docx02

| | | |
|---------------------------------|---|---|
| Communication System: | NFC sensor transponder system TELID®200 | NFC type 2, ISO14443-A |
| RF communication: | | 13.56 MHz |
| Carrier Frequency: | | 106 kbps |
| Communication Rate: | | |
| Communication Distance: | 0 ... 5 mm | depending on reader antenna and environmental conditions |
| Sensors: | soil moisture | |
| Type: | | volumetric water content (%), capacitive measurement |
| Resolution: | | 1% |
| Accuracy: | | ±5 vol. %, independent of medium |
| Memory: | EEPROM | 888 bytes |
| Content: | | unique TELID identification number, measurement data, free customer memory |
| Data Retention: | | 20 years |
| R/W Endurance: | | 500.000 cycles |
| Environment: | | |
| Max. Working Temperature: | -25°C ... +85°C | recommended 0°C ... +60°C |
| Storage Temperature: | -40°C ... +85°C | recommended 25°C |
| Housing / Dimensions: | | |
| Form: | planar 45° antenna and moisture measurement pin | |
| Antenna Size: | | appr. 25 mm x 30 mm x 3mm |
| Soil Pin Size: | | appr. 120 mm x 15mm x 1,5mm |
| | | measurement area 70 mm x 15 mm x 1,5 mm |
| Basic Material: | glass fibre and epoxy casing | |
| Marking: | | type label on top |
| Mounting instruction: | | no mounting, plug in pin |
| Protection Class: | | IP67 |
| Battery: | no battery required | |
| Recommended Accessories: | | |
| Smartphone Operation: | | Android device with integrated NFC function |
| Tablet/Desktop Operation: | | iID® POCKETwork, iID® PENSolid |
| Operation: | | |
| Evaluation Software: | TELID®257.nfc FLOWERpot | |
| Play Store Link: | https://play.google.com/store/apps/details?id=de.microsensys.telid257nfcdemo&hl=de | |
| Platform: | | Android 4.2 or above |
| Functionality: | | scan and show ID, remark, VWC(%) |

Type : 12.257.114 12.257.124*
PIN length: 120/70 150/70

mm

*) in development or on request