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.

Communication System:
RF communication: NFC sensor transponder system TELID®200
Carrier Frequency: NFC type 2, ISO14443-A
Communication Rate: 13.56 MHz
Communication Distance: 106 kbps
depending on reader antenna and environmental conditions

Sensors:
Type: soil moisture
Resolution: volumetric water content (%), capacitive measurement
Accuracy: 1%
±5 vol. %, independent of medium

Memory:
Content: EEPROM
888 bytes
unique TELID identification number, measurement data, free customer memory

Data Retention: recommended 0°C ... +60°C
500.000 cycles
recommended 25°C

Environment:
Max. Working Temperature: -25°C ... +85°C
Storage Temperature: -40°C ... +85°C

Housing / Dimensions:
Form: planar 45° antenna and moisture measurement pin
Antenna Size: approx. 25 mm x 30 mm x 3mm
Soil Pin Size: approx. 120 mm x 15 mm x 1,5mm
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
Platform: Android 4.2 or above
Functionality: scan and show ID, remark, VWC(%)