

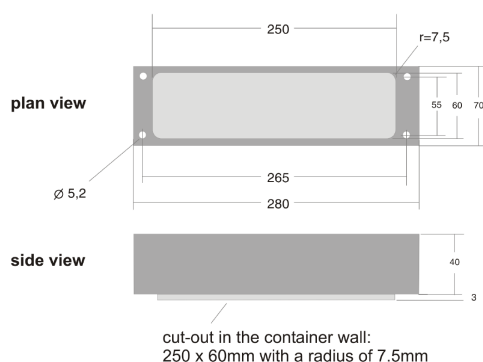
## MOISTURE PROBE SONO-GS1



### Features

- The big measuring field of five liters volume of low density materials ensures a representative and precise measurement even of rough inhomogeneous materials
- Highly reliable when measuring complex materials like wood chips, granulates, pasta and other materials
- Simple installation in container wall, screw conveyors, and others
- Integrated in the probe are the signal processing and the evaluation with intelligent filter algorithms
- TRIME®-TDR Winner of multiple awards. Innovation awards, such as the Bauma Innovation Award 2016 and DLG Approved certification from the German Agricultural Society (DLG - 2018)

### Drawing



### Technical data

**Moisture range :** 0...25% H<sub>2</sub>O (depending on materials)

**Accuracy :** 0.1 %H<sub>2</sub>O (within the calibration range)

**Conductivity range :** 0...1 mS/cm

**Measuring technology :** TRIME® (Time-Domain-Reflectometry with Intelligent Micromodule Elements)

**Measuring principle :** radar wave frequency 600MHz to 1.2 GHz

**Temperature range :** 0...70°C

**Field expansion range :** approx. 50...80mm (depending on material and moisture)

**Signal output :** 2 x 0(4)...20mA

Analog output 1	moisture in %
Analog output 2	conductivity, temperature or standard deviation

**Communication :** RS-485, IMP-Bus

**Power supply :** 12...24Vdc, 3W

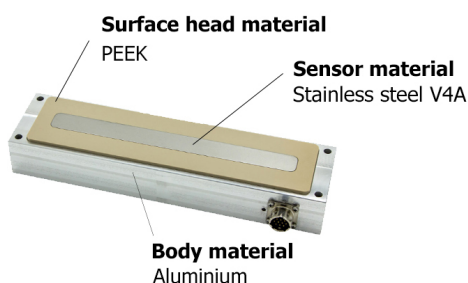
**Connector plug :** 10-pole MIL flange connector

**Body material :** Aluminium

**Surface head material :** stainless steel V4A and PEEK

**Dimension :** 280 x 70 x 40 mm

**Protection class :** IP67



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## AVAILABLE MATERIALS for SONO-GS1

The SONO-GS1 is suited for measuring of low density materials.

- **Low density materials**

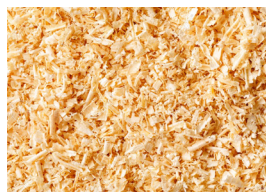
For example...



Wood pellets



Wood fibre



Saw dust



Wood chip



cassava



Taro



Furthermore, these materials that are shown, please do not hesitate to contact us for consulting

## INSTALLATION EXAMPLE SONO-GS1

- **Belt dryer**



- **Contrainer walls**



- **Silo**



- **Screw conveyor**



- **Hoppers**



*\*\*note ; The moisture probe, SONO-GS1. It is able to install various position. So, the installation of probe depend on conditions and structure of working place. The more installation correctly, the more effective of moisture probe.*

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## ACCESSORIES for SONO-GS1

These are necessary equipments that using with products and increase efficiency.

**SM-USB** : SM-USB is the signal transmitter. it can connect your SONO probes with a PC and setting, adjustment, calibration by SONO-CONFIG software.



**Sensor cable** ☐ : The connection cables with MIL connectors are available in cable lengths.

- 308029** : Cable length of 4 meters
- 308032** : Cable length of 10 meters
- 308033** : Cable length of 25 meters



**SONO-VIEW** : SONO-View is a display and configuration for advanced process control with TRIME and SONO probes. Up to 4 probes can be connected via serial interface for displaying the measured values, setting of operation mode, calibration curves and other functions.



**SONO-CONFIG** : SONO-CONFIG it is possible to make process-related adjustments of individual parameters of the SONO probe. Furthermore the measurement values of the SONO probe can be read from the probe via the serial interface and displayed on the screen.

