Microwave Sensors
For Inline Production

Suitable for solid, granular and powdered materials

Flow Through Sensor
Surface Sensor

Density
Foreign Particles
Moisture

www.work-microwave.com
### Surface Sensor – ideal for bulk solids

<table>
<thead>
<tr>
<th>Specification</th>
<th>Freq.</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor head: Size depends on application</td>
<td>5 GHz</td>
<td>Moisture measurement range 1 to 60 %</td>
</tr>
<tr>
<td>Sense area: D = 10 mm</td>
<td></td>
<td>Direct contact to measurement material</td>
</tr>
<tr>
<td>Measurement range: Up to 10 mm</td>
<td></td>
<td>Measurement rate up to 10.000 samples/s</td>
</tr>
<tr>
<td>Sensor head D = 50 mm (mounted under 90°)</td>
<td>2 GHz</td>
<td>Temperature range:</td>
</tr>
<tr>
<td>Sense area: D = 20 mm</td>
<td></td>
<td>• body with electronics 0 °C to +80 °C</td>
</tr>
<tr>
<td>Measurement range: Up to 20 mm</td>
<td></td>
<td>• sensor resonator 0 °C to +120 °C</td>
</tr>
<tr>
<td>Sensor head: Flange D = 128 mm</td>
<td>1 GHz</td>
<td>Interfaces: Ethernet, Current loop 4 mA to 20 mA, Profibus</td>
</tr>
</tbody>
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Flow Through Sensor – ideal for powder and particles

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<th>Specification</th>
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| Inner diameter: \( D = 66 \text{ mm} \)  
Length of resonator: 326 mm  
For powder or particles up to 20 mm | 1 GHz | Moisture measurement range 1 to 15 %  
Density measurement kg/m³  
Identification of foreign particles  
Measurement rate up to 10,000 samples/s  
Temperature range:  
• body with electronics 0 °C to +80 °C  
• sensor resonator 0 °C to +120 °C  
Interfaces: Ethernet, Current loop 4 mA to 20 mA, Profibus |
| Inner diameter: \( D = 10 \text{ mm} \)  
Length of resonator: 73 mm  
For powder or particles up to 3 mm | 6 GHz | Different sensor designs according to the location of installation, the moisture and density area, and the product form |
Resonator Based Measurement System

Typical Applications
Measurements for a wide range of materials in nearly all physical conditions

Best for Quality

- 15 years of innovation
- ISO 9001: 2008 certified company
- 3 years warranty

Contact us today with your specification!

Phone: +49 8024 6408 0
E-Mail: sales@work-microwave.com
Internet: www.work-microwave.com

WORK Microwave GmbH
Raiffeisenstraße 12
83607 Holzkirchen – Germany