

# PROGAP 2.0

LEVEL MONITORING WITH FILLING-SIGNAL-RECOGNITION



ProGap 2.0 is a microwave-barrier, non-contact point level sensor for dry bulk solids, offering reliable fill and limit detection through non-metallic walls in harsh conditions up to 1,000 °C

## FEATURES AND BENEFITS

- Easy retrofitting
- Detection through compact non-conductive walls
- Can be used with adapter up to 220°C and 20 bar
- Usable up to 1.000°C with a ceramic mounting
- Can be used up to a profile of 25 m (larger profiles on request)
- Compact device, no additional evaluation unit needed
- Signalling through relay switching
- Extra short sensor with separate evaluation unit for EX-Zones



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## TECHNICAL SPECIFICATIONS

<b>Material</b>	Housing: Stainless steel 1.4571. Sensor-Isolation: POM
<b>Protective system</b>	IP 65
<b>Process temperature</b>	20 ... +80°C 20 ... +220°C (with process adapter) max. 1000°C (with ceramic flange)
<b>Ambient temperature</b>	-20 ... +60°C
<b>Working pressure</b>	max. 1 bar max. 20 bar (with process adapter)
<b>Detection range</b>	0.1 ... 25 m
<b>Power supply</b>	24 V DC (-10 / +15%)   24 V AC (-10 / +15%)
<b>Power consumption</b>	max. 20 VA
<b>Current consumption</b>	max. 850 mA
<b>Relay contact</b>	Max. rated load: 250 V AC Max. peak current: 6 A Max. rated load 230 V AC: 250 VA Max. breaking capacity DC1: 3/110/220 V: 3/0.35/0.2 A Min. switching load: 500 mW (10 V/5 mA)
<b>Response time</b>	0.25 ... 5 s (continuously adjustable)
<b>Measuring frequency</b>	K-Band 24.125 Ghz (± 100 MHz)
<b>Transmitting power</b>	max. 5 mW
<b>Weight</b>	Transmitter: 1.1 kg   Receiver: 1.1 kg

## USE WITH A PRESSURE ADAPTOR

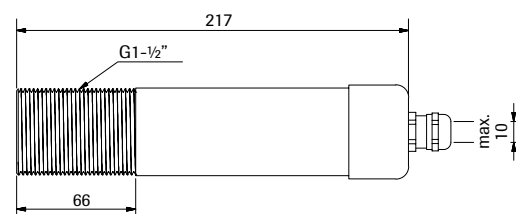
The ProGap 2.0 sensor can be used at a pressure of 1 bar and process temperatures up to 80°C.

For higher pressures (up to 20 bar) a pressure adapter made of POM, for higher temperatures a Tecapeek adapter (max. 220°C) and a ceramic adapter (max. +1000°C) are available.

## MOUNTING PRESSURE ADAPTER

The mounting of the pressure adapter / temperature adapter is identical. It is screwed into a welded G 1½ inch thread neck, provided by the customer.

Only the ceramic adapter is supplied as a flange and must be mounted separately. The housing of the ProGap 2.0 is screwed into the internal thread of the adapter.



## TECHNICAL SPECIFICATIONS

	Pressure adapter	Temperature adapter	Food adapter	High temperature adapter
<b>Material</b>	Stainless steel 1.4571 POM diaphragm	Stainless steel 1.4571 Tecapeek diaphragm	Stainless steel 1.4571 Tecapeek GF30 diaphragm	Steel Ceramic diaphragm
<b>Temperature</b>	-20 ... +80°C	Max. +220°C	Max. +220°C	Max. 1000°C
<b>Pressure</b>	Max. 20 bar	Max. 20 bar	Max. 20 bar	Max. 40 bar
<b>Thread</b>	G 1½" on both sides	G 1½" on both sides	G 1½" on both sides	G 1½" on sensor side
<b>Wrench width</b>	55 mm	55 mm	55 mm	17 mm