

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

Material	Housing: Stainless steel 1.4571. Sensor-Isolation: POM
Protective system	IP 65
Process temperature	20 ... +80°C 20 ... +220°C (with process adapter) max. 1000°C (with ceramic flange)
Ambient temperature	-20 ... +60°C
Working pressure	max. 1 bar max. 20 bar (with process adapter)
Detection range	0.1 ... 25 m
Power supply	24 V DC (-10 / +15%) 24 V AC (-10 / +15%)
Power consumption	max. 20 VA
Current consumption	max. 850 mA
Relay contact	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)
Response time	0.25 ... 5 s (continuously adjustable)
Measuring frequency	K-Band 24.125 Ghz (\pm 100 MHz)
Transmitting power	max. 5 mW
Weight	Transmitter: 1.1 kg Receiver: 1.1 kg

USE WITH A PRESSURE ADAPTOR

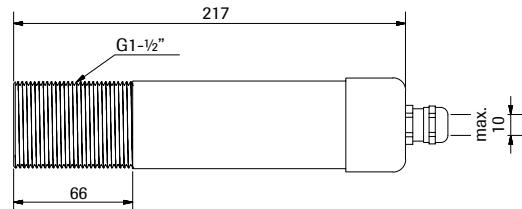
The ProGap 2.0 sensor can be used at a pressure of 1 bar and process temperatures up to 80°C.

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