

Microwave FlowCell

The FlowCell is integrated into an existing pipeline to measure the moisture content. The probe is connected to the transmitter via a high-frequency quad cable up to a distance of 10 m. The reference line built into this cable allows for very accurate system and cable drift compensation. The final calibration is completed automatically with graphical result display after device supported recording of the sample.

The FlowCell consists of a standard globe housing made of stainless steel 1.4404 and two antennas, which can be easily mounted via clamp connection and, if necessary, also be replaced. Sealing takes place by means of O-rings made of EPDM and two PEEK windows.

Characteristics

- Online moisture measurement
- Hygienic design
- For installation in pipelines
- Stainless steel inline housing
- Nominal sizes from DN 50 to DN 150
- Common connection variants
- Replaceable antennas



Accessories

In some applications, for example conductivity and/or temperature compensation may be required. In this case, Berthold offers the following options as accessories for installation in a second globe housing:

- Temperature sensor
- Conductivity sensor
- Sampling valve





- — Microwave measurement covers the entire pipe cross-section
- — Interchangeable antennas
- — EHEDG certification
- — Suitable for contact with food according to the regulation (EC) No 1935/2004
- — FDA-approved materials
- — CIP-/SIP-capable (cleanable and sterilisable)
- — Virtually pocket-free

Technical specifications

Material housing	stainless steel 1.4404 polished (AISI 316L)
Material antenna cover	PEEK
Sealing materials	EPDM
Process connection	Standard welding flange acc. to EN 1092-1/11 Hygiene: Thread/collar with nut according to DIN 11853-1 weld stubs
Nominal pipe sizes	DN 50 to DN 150
Nominal pressure level	PN 16
Temperature range	Product temperature: 10 ... 130 °C, temporarily up to 140 °C Ambient temperature (operation and storage): -20 ... 60 °C
Connections	2 x HF connections, max. cable length: 10 m
Certificates, Regulations	EHEDG, EC 1935/2004 (hygienic variant)

