



HYGROPHIL® F 5673 Trace Moisture Analyzer

Easy and reliable measurement.

HYGROPHIL® F 5673 Trace Moisture Analyzer

Stable measurements for process safety

HYGROPHIL® F 5673 is a high-quality, multi-channel fiber-optic hygrometer for measuring the moisture of trace humidity at low dew-point temperatures in gases and liquid. The extremely robust temperature-compensated moisture sensor was developed especially for natural gas applications and is now applied for a large number of different applications.

BARTEC BENKE

Your partner for measurement technology



The specialists at BARTEC BENKE have many years of experience in the field of measurement technology. They create solutions you can rely on: economical, reliable and applicable over decade.

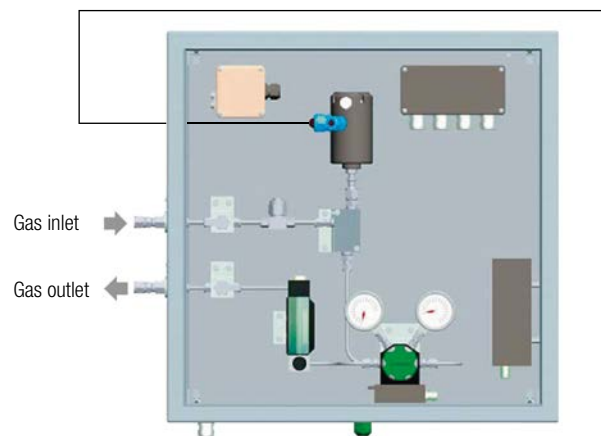
Low-maintenance and long-term stable

Measurement in gases and liquids

Multi-channel up to three sensors

In-line measurement with retraction tool

Fibre optic cable



Sample conditioning system

The sensor L 1661 is installed under high pressure

HYGROPHIL® F 5673

Up to 3 moisture sensors can be connected



Examples of applications

- Natural gas: Gas separation plants, (bio) gas injection plants, gas transport, transfer-stations, gas dryers, gas caverns (storage)
- Petrochemical industry: Recycle gas streams, gaseous and liquid hydrocarbons, fuels
- Process control: Improving operation, quality control and efficiency
- Safety: Corrosion and water slug prevention, protection of catalysts

Natural gas



Refinery



Biogas



The fiber optic principle

The extremely robust inline moisture sensor – L1661 – consists of a robust multi-layer of optically high and low refractive layers which are connected to a light source and evaluation unit. Water vapour cause a change in refractive index, which lead to wavelength shift proportional to the moisture content prevailing in the medium.

This shift is measured with a Polychromator unit and is assigned to dew point temperature. Furthermore the sensor is equipped with an integrated Pt100 temperature sensor for temperature compensation.

Moisture sensor L 1661
Simple installation via T-fitting



Retraction tool
Allows for in-situ installation and to access sensor up to 20 MPa

BARTEC BENKE

Your partner
for safety
technology.
Challenge us!



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