BARTEC BENKE

HYGROPHIL® HCDT Measurement of the Natural Gas Quality

Moisture and Hydrocarbon Dew Point Measurement in Natural Gas

HYGROPHIL® HCDT

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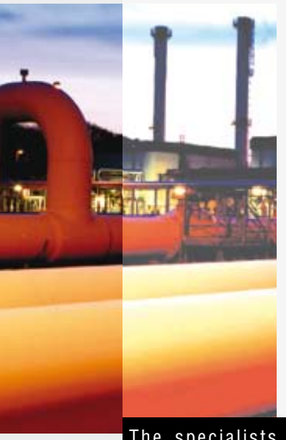
YOUR strong partner for measurement technology



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.

Control the qualitity of natural gas with two measurements

- **Water dew point**
- **Hydrocarbon dew point**

to protect natural gas plants and pipeline networks and to maintain failure-free operation.

Why do these measurements monitor the quality of natural gas?

Water dew point
Water vapour in natural gas not only reduces the caloric value but also causes corrosion within the pipeline. In cold climates water can condense within the pipeline and freeze to ice during winter time. The results are damages of the plant and safety risks like pipe blockages, cracking and leakages.

Hydrocarbon dewpoint (HCDT = Hydro Carbon Dewpoint Temperature)
The higher the HCDT value, the higher the quantitiy of heavy hydrocarbons, the lower the quality of the natural gas. Like water, hydrocarbons can condense in high pressured pipes at low temperatures and can cause plant damages.

Quality provides safety

Moisture (water dew point) and hydrocarbon dew point are not only the indicators for the quality of natural gas but also the potential risk factors for every natural gas plant.

In natural gas high-pressured pipes a high moisture content in combination with hydrocarbons can cause hydrate formation. This methane hydrate blocks the valves or the complete pipeline, causes pressure drops and reduces the flowrate.

For the protection of natural gas plants and for safeguarding a failure-free operation, more and more gas companies are asking for continuous monitoring of these values.

BARTEC BENKE has developed a innovative measurement system to monitor the quality of natural gas and at the same time to protect the plant.

With the new HYGROPHIL® HCDT from BARTEC BENKE you can measure the moisture and the hydrocarbon dew point.

- accurate
- long-term stability
- reproductable

Measurement system HYGROPHIL® HCDT

BARTEC BENKE sets new standards for the mesurement of hydrocarbon dew points with the measurement system HYGROPHIL® HCDT.

Therefore BARTEC BENKE can make a decisive contribution to qualitiy assurance of natural gas and equipment protection.

System components

- **Display unit HYGROPHIL® F-5673**
- **Sensor HCDT**
  Hydrocarbon dew point measurement
  Method: chilled mirror
- **Moisture sensor L1660**
  Moisture measurement
  Method: fiber optic
- **Sample System**
  for gas conditioning

Features

- accurate
- long-term stability
- drift-free
- reproducible

BARTEC BENKE Measurement technology ... **Highest precision. Long-term stability.**

Protection and safety for natural gas plants and pipeline networks. HYGROPHIL® HCDT

BARTEC BENKE

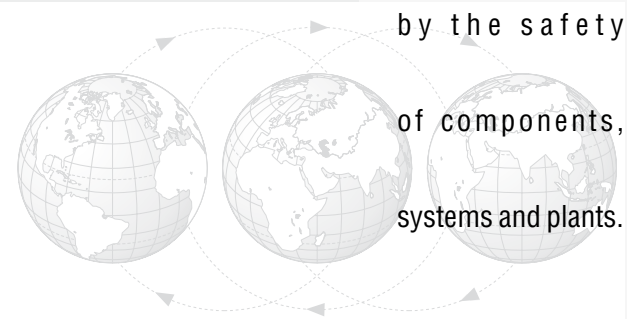
protects people and

the environment

by the safety

of components,

systems and plants.



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