FLOW MANAGEMENT DEVICES

FMD Small Volume Meter Prover for Carbon Capture CO2 Proving Application

Flow Management Devices (FMD), a leading provider of small volume meter provers, recently shipped a small volume meter prover to the TÜV SÜD National Engineering Laboratory for use in Carbon Capture, Utilization, and Storage (CCUS) applications.

World's First Traceable CO_2 Calibration Facility:

TÜV SÜD is currently in the process of developing the world's first traceable CO_2 liquid/dense phase calibration facility in East Kilbride, Scotland. TÜV SÜD's facility development is part of the EU-funded project ENCASE (A European Network of Research Infrastructures for CO2 Transport and Injection). This state-of-the-art laboratory will play a pivotal role in ensuring the reliability and precision of CO_2 flow measurements, critical for CCUS applications worldwide.

The FMD-007 Small Volume Meter Prover:

FMD has shipped its FMD-007 small volume meter prover to TÜV SÜD's facility. The FMD-007 is equipped with both high pressure and low-temperature kits, allowing it to operate under the extreme conditions necessary to maintain CO_2 in its liquid state. This prover will be installed in the laboratory to verify the performance of various meter types.

Advancing Research and Development:

The FMD small volume prover will provide dynamic traceable calibration of meters under live CO_2 process conditions for the most accurate measurement of CO_2 possible. The FMD small volume prover is well equipped with the necessary high pressure and low temperature packages to ensure flow measurement accuracy across the CCUS value chain.

FMD-007 Meter Prover Specifications:

- Flow Rate: 0-700 GPM
- Low Temperature Kit
  Temp. Range: -50oF to 120oF (-45oC to 49oC)
- High Pressure Kit: 1500 # ANSI rated for up to 3600 psi

For more information about this cutting edge project, visit TÜV SÜD website at www.tuvsud.com/en-gb or Flow MD's website at www.flowmd.com.

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