PRODUCT DATASHEET

CO_2 Quality Analyser System for CCUS

Water, O_2 and H_2S analysis at ppm level for CCUS





DETAIL – HVAC UNIT

OVERVIEW

The Tech Inc. CO_2 Quality Analyser System for CCUS checks captured CO_2 before it enters a shared carbon capture, utilisation and storage (CCUS) pipeline. It measures water, oxygen (O_2) and hydrogen sulphide (H_2S) at parts-per-million (ppm) level, giving each source proof at the tie-in that its CO_2 meets the pipeline specification. We design and build the system around proven analysers from leading makers, with the sample system, housing and controls made in-house.

MODELS AND CONFIGURATIONS

- **TI-CQA-S** – analyser shelter system for a source tie-in or hub.
- **TI-CQA-C** – cabinet analyser system for small sources and pilots.

TYPICAL DESIGN DATA

Parameters measured	Water, O_2 and H_2S at ppm level, with other components to client specification
Sample	Gas-phase or dense-phase CO_2, reduced to analyser conditions
Housing	Walk-in shelter (TI-CQA-S) or cabinet (TI-CQA-C)
Shelter services	HVAC, lighting, power distribution and gas detection
Calibration	Validation and calibration gas connections, manual or automatic
Outputs	Hard-wired and serial signals to the DCS or SCADA, to client specification
Hazardous area	Electrical equipment selected for the hazardous-area classification, or to client specification

APPLICATIONS

CCUS hubs and source tie-ins, gas processing and hydrogen plants, ammonia and petrochemical plants, refinery capture units, cement, steel and power plants with capture, and pilot capture plants.

KEY ADVANTAGES

- **Measurement at ppm level** – water, O_2 and H_2S at the levels a CCUS pipeline sets
- **Proof at the tie-in** – continuous records of CO_2 quality at the point of entry
- **Two formats** – shelter for tie-ins and hubs, cabinet for small sources and pilots
- **Complete package** – probe, sample system, analysers, housing and controls from one supplier
- **Pairs with the dryer** – works with our CO_2 dehydration unit upstream

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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