



## RELIABLE PROCESS INSTRUMENTATION SUPPORTING CARBON REDUCTION INITIATIVES

### BACKGROUND

Process Instrument Solutions recently supported a customer involved in a carbon capture project, supplying a complete range of Siemens instrumentation and gas analysers to ensure accurate and reliable process monitoring. The project demonstrates how Siemens technology can meet the demanding requirements of emerging energy and environmental applications.



### CHALLENGE

The application required precise level measurement within a process column operating at low pressures and elevated temperatures. These conditions posed a challenge for traditional instrumentation, as they demanded both high accuracy and long-term stability in order to deliver dependable measurement results. The customer also needed a solution that could be quickly commissioned, easily configured, and compliant with stringent safety and hazardous area approvals.

### SOLUTION

To address these requirements, we supplied and installed Siemens SITRANS P420 differential pressure transmitters fitted with remote-mounted diaphragm seals. This configuration allowed accurate level measurement while handling the process's challenging temperature and pressure conditions.



The SITRANS P420 offers excellent turndown capability, high accuracy, and long-term stability, making it ideally suited for this application. Its intuitive Quick Start wizard, accessed via push buttons and an intelligent local display, simplified setup and interrogation. In addition, the transmitter is available with SIL 3, IECEx, ATEX, and FM approvals, ensuring full compliance for safety-critical and hazardous area installations, all with Siemens' renowned short lead times.





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**RESULT**

The installation provided the customer with a robust and dependable measurement solution for their carbon capture project. By combining Siemens' advanced instrumentation with our application expertise, the system now delivers accurate and stable performance under demanding conditions.

The customer benefits from greater confidence in their process control, efficient commissioning, and long-term reliability, helping to support the success of this important carbon reduction initiative.

**EQUIPMENT SUPPLIED**

**Siemens SITRANS P420 Differential Pressure**

Siemens SITRANS P420 Differential Pressure is the first pressure transmitter on the market to feature remote safety handling. The instruments' remote safety handling via SIMATIC PDM saves time during SIL commissioning: rather than manually attending to each individual device across a facility, operators can program transmitters from the control room. This reduces the commissioning time in applications requiring functional safety.



**Unparalleled Services & Solutions**

Process Instrument Services delivers expertise, precision and reliability, tailored to meet your needs. Experience the difference with us.



**Jon Tayler**  
Managing Director

