



SOLIDAQ

SOLID
Petroserve 

SOLIDAQ – Well Test Data Acquisition System

Real-Time Intelligence for Well Testing Operations

SOLIDAQ is an in-house data acquisition system designed to support safe and efficient well testing, providing accurate real-time monitoring and clear operational insights to help engineers make informed decisions across all types of well test operations.



Designed and Engineered In-House

SOLIDAQ is an in-house monitoring platform built by experienced engineers that integrates hardware, software, and reporting into one system, designed for well testing and easily configurable for reliable, efficient deployment in the field.



Real-Time Monitoring Across the Entire Test System

SOLIDAQ continuously monitors key operational parameters throughout the well testing process, providing operators with immediate visibility into system performance.



Measurement inputs include:

- Wellhead pressure and temperature sensors
- High and low pressure separator instrumentation
- Differential pressure gas flow measurement systems
- Radar level transmitters and flow computer integration
- Digital safety and emergency shutdown (ESD) signals
- Additional Modbus-connected instrumentation



Alarm features include:

- High and low parameter alarms
- Audible alarm alerts
- Optional ESD trigger functionality
- Digital safety monitoring for ESD activation
- High/low level switch monitoring
- Fire and gas detection signals

Intelligent Alarm and Safety Monitoring

Safety is a critical component of SOLIDAQ's system architecture. The platform includes configurable alarm monitoring designed to immediately highlight deviations from expected operating conditions.

Accurate Data Recording and Reporting

SOLIDAQ records operational data continuously throughout the well test program.



Captured information includes:

- Analog measurement values
- Digital safety signals
- Alarm events and acknowledgements
- Test start and stop timestamps
- Configuration changes

Technical Performance Highlights

SOLIDAQ delivers highly accurate measurement and monitoring performance designed for demanding well test environments.



- Analog measurement accuracy: 0.1% of span
- Liquid measurement accuracy: 0.1% volume / 0.5% density
- Gas measurement accuracy: $\pm 1.5\%$
- Data acquisition rate: < 0.5 seconds
- Up to 16 analog input channels
- Up to 16 digital input channels
- 8 relay output channels for alarms and system control
- Configurable data recording intervals

Reliable System Architecture

SOLIDAQ incorporates multiple system safeguards designed to ensure reliable performance in demanding field environments.



These include:

- UPS backup power system
- Password-protected configuration access
- Automatic configuration storage and recovery
- Internal process data hub for real-time data management
- Dual safety architecture including an independent safety relay panel

Turning Well Test Data Into Operational Insight

SOLIDAQ enhances Solid Petroserve's well testing services by providing advanced monitoring, improved safety oversight, and high-quality data reporting.

By combining engineering expertise with in-house innovation, Solid Petroserve delivers a monitoring platform that strengthens operational confidence and supports successful well testing operations



CONTACT PETROSERVE

To learn more about the SOLIDAQ Well Test Data Acquisition System or to discuss your well testing requirements, contact our team.

- ✓ Proven field experience across diverse well types
- ✓ In-house wireline fleet and tool maintenance
- ✓ Safety-first operations with certified crews
- ✓ Customizable solutions to match well specifications
- ✓ Regional reach across Canada and MENA

Get in Touch

Contact Solid Petroserve today to discuss your requirements — whether slickline clean-outs, real-time logging, plug/pull operations or complex interventions.

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