

PROCESS NITROGEN SERVICES

INTEGRATED DIGITAL RECORDING SYSTEM



Our new integrated digital recording system offers real-time data measurement of nitrogen flow, pumping pressure, and temperature all from one compact system. This reduces time spent testing by up to 1 hour per test, resulting in significant savings for operators.

FEATURES

The new system allows 5 parameters to be recorded in real-time:

- GN2 flow (Scf/min)
- GN2 Total flow (Scf)
- GN2 Pressure (PSI)
- System Pressure (Barg)
- GN2 Temperature (°C)

The system also facilitates the use of the data recorder to provide an enhanced level of safety to control:

- LN2 low temperature protection shutdown (10°C, 6°C or client specified)
- Over Pressure Protection for client system (Barg)
- Tight shut-off from Altus System on shutdown



BENEFITS

Increased efficiency

- Three systems in one
- Quicker rig-up time
- Quicker calibration time
- Reduced hose management

Improved accuracy

- Greater accuracy of data collection
- Data stored for life cycle/infinite time
- Customise screens and channels
- Download digital data

Safety by design

- Reduces manual handling
- Remove risk of leak paths from hoses
- Reduces deck space
- Tamper proof

CASE EXAMPLE

Platform Shutdown

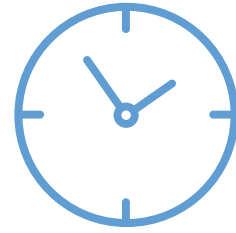
24 test packs utilising
the digital system measuring:

- Nitrogen flow
- Pumping pressure
- Temperature



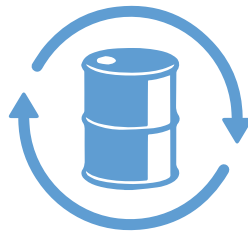
Number of
tests performed

24



Number of
hours saved

24



Pre shutdown
production rate

10,417
(bbls/day)



Early startup
volume value

1,041,700