

Quality is a critical part of everything we do at CATAGEN as proven through certification by the Vehicle Certification Agency (VCA) and Applus IDIADA.

1. Quality right from the start

We standardise how customer requirements are collated and managed to ensure results are delivered right first time and every time.

2. Automation

Automation is built in to drive the setup and execution of a customer project.

3. Precision Project Management

Technical Experts ensure that initial customer requirements are developed into a detailed project plan with each critical step mapped out including the required assets and resources to achieve the project goals.

4. Delivery

We know exactly what we deliver to our customers catalyst with a fully calibrated and automated delivery system. Not only do CATAGEN use certified temperature measurement and control, but we also use calibrated gas delivery – that is why CATAGEN have a pure measurement of performance

5. Project plans

Project plans are routinely updated, monitored and tuned to ensure delivery whilst enabling customers to have clear visibility of project progress.

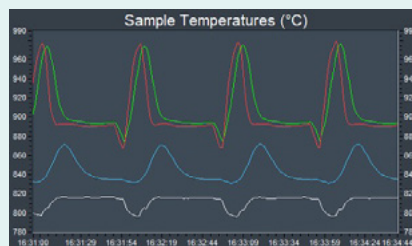
6. Full traceability

All aspects of the project are fully traceable from the work carried out to the equipment used.

7. Control & Monitoring

The CATAGEN OMEGA test reactor has full control of mass flow, temperatures and individual gas concentrations - [click to watch film](#). Our Technical Experts will complete a tuning exercise for each test, ensuring everything is just right for the partner's catalyst. Control automation then kicks in to ensure repeatable delivery and measurement.

The system is monitored by highly qualified engineers and tight tolerance alarm systems utilised to act as a failsafe. Effectively, the system will automatically shut down should something move out of spec. The OMEGA test reactor is world leading for control and reproducibility of this process.

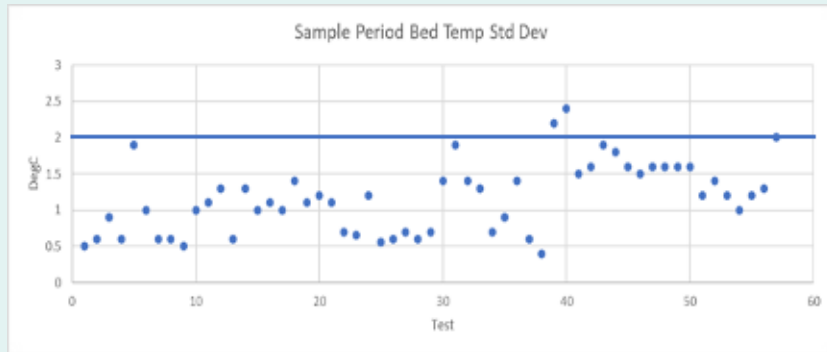


Cycle Alarms			
Start	Start Target 913.00	Alarm Output 1	<input checked="" type="checkbox"/>
Thick	Thick Target 900.00	Alarm Output 3	<input checked="" type="checkbox"/>
Thick	Thick Target 900.00	Alarm Output 4	<input checked="" type="checkbox"/>
Lambda	Lambda Target 1.028	Alarm Output 2	<input checked="" type="checkbox"/>
Pressure	Press Up 70	Press Low 0	<input type="checkbox"/>
Flow	Flow Up 50	Flow Low 70	<input type="checkbox"/>

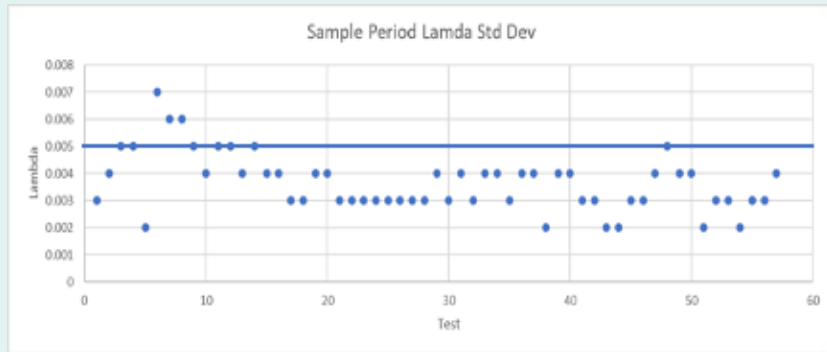
8. Quality statistics

CATAGEN has a quality process, procedure and automation - all enabling the lowest standard deviations available.

Bed temperature deviations, across over 50 tests, average below 2°C for the entire duration of the test.







Lambda standard deviations average below 0.005 as illustrated by the test data to the side. This is industry leading tolerance control.



9. Reporting - Data with Insight

CATAGEN's Quality Management System incorporates multiple peer and senior technical reviews throughout and prior to data release. Data analysis and review allows the customer to have confidence with detailed reporting providing the ultimate insight.

<p>4-6 Weeks Planned availability</p> <p>Time saving vs internal solution. Start within 4 wks of PO → test within 6 wks.</p> 	<p>Up to 40% Cost savings</p> <p>Energy efficiency (fuel) and right first time</p> 	<p>Sub 2% Test to test variability</p> <p>Industry leading levels of reproducibility</p> 	<p>98% CO₂ emissions saving</p> <p>Energy efficient and renewable energy source</p> 
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