INTRODUCTION

Cascade Controls Limited is a wholly indigenous Engineering Servicing Company, duly registered by Law and having its Headquarters at Plot 5 Fiddil Avenue, Ordinance, Trans Amadi Industrial Area, Port-Harcourt, Nigeria.

We have successfully executed countless projects spanning 20 years that cover the oil and gas sector and associated industries – Rendering Technical Services, Fire and Gas detection Services, Wellhead Services, Project Commissioning, Process Instrumentation, Control Process Optimization, Calibration and Certification, Procurements and Consultancy Services.

We have a pool of well trained professionals, dedicated to providing quality services that are innovative and cost effective. We have sustained our competitive edge by constantly re-inventing our modus operandi while maintaining the highest standards of Quality and Integrity.

By partnering with certified and established manufacturing companies locally and internationally, we are better placed to provide services with a foundation of over 75 years combined experience.

We are the sole agents for Crowcon Gas Detectors (United Kingdom) and Maximator GmBH (Germany) with sales and after sales services you can trust from our highly trained and dedicated staff.

Our core values of SAFETY, PROFESSIONALISM, INTEGRITY, RELAIBILITY, INNOVATION and TEAMWORK sets us apart from the competition as we assure on Customer Satisfaction.


Cascade Controls Limited is a recognized member of the Port Harcourt Chamber of Commerce, Industry, Mines and Agriculture (PHCCIMA) and Manufacturers Association of Nigeria (MAN).

Her Staff strength of Thirty Five permanent Staff (35) and Eighteen Contract Staff (18) ensures that Professional services are provided around the clock.

VISION

Our vision is to share in contributing our quota in General Oil and Gas Operations and be part of the dreams of many young Nigerians who have something to contribute by giving them the opportunity to do so.

MISSION

Our mission is to help re-create, sustain and drive the acceptable standards and norms to the best of our ability to enhance business profitability.
**CAPABILITIES**

**Instrument Calibration and Certification** – offers World-Class Calibration Services for instruments from hundreds of manufacturers. We can supply varying levels of certification to meet your individual quality requirements, performed in our lab or at your location. We can also calibrate and supply certification for most off-the-shelf instruments, traceable to NIST, with or without data points.

Our calibration services eliminate the need for you to seek outside sources for calibration. All calibration standards we use must meet strict specifications and are subject to continual inspection audits and stringent quality control standards. These are the building blocks that ensure consistent customer satisfaction.

Below is a list of equipments we handle on a regular basis. We have the capacity to do more so if your equipment is not listed, feel free to contact us as we constantly upgrade our test equipments.

**Electrical**

<table>
<thead>
<tr>
<th>Electrical Equipment</th>
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</thead>
<tbody>
<tr>
<td>Ammeters</td>
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<tr>
<td>Synchroscope</td>
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<tr>
<td>Ohmmeters</td>
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<tr>
<td>Loop Impedance Testers</td>
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<tr>
<td>Capacitance Meters</td>
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</tbody>
</table>

**Electronic**

<table>
<thead>
<tr>
<th>Electronic Equipment</th>
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</thead>
<tbody>
<tr>
<td>Oscilloscopes</td>
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<tr>
<td>Function Generators</td>
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</table>

**Paper Testing**

<table>
<thead>
<tr>
<th>Paper Testing Equipment</th>
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</thead>
<tbody>
<tr>
<td>Compression Testers</td>
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<tr>
<td>Tear Testers</td>
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<tr>
<td>Sample Cutters</td>
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</tbody>
</table>

**Pressure and Vacuum**

<table>
<thead>
<tr>
<th>Pressure and Vacuum Equipment</th>
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<tbody>
<tr>
<td>Dead Weight Testers</td>
</tr>
<tr>
<td>Pressure Recorders</td>
</tr>
<tr>
<td>Vacuum Gauges</td>
</tr>
</tbody>
</table>
## Temperature
- Temperature Indicators
- Pyrometers
- Thermometers
- Temperature Baths
- Thermocouples
- Infra-Red Thermometer
- Temperature Controllers

## Torque
- Torque Wrenches
- Torque Screwdrivers
- Torque Gauges
- Torque Watches
- Torque Clocks
- Torque Analysers

## Automotive
- Torque Wrenches
- Welding Machines
- Micrometers
- Battery Testers
- Feeler Gauges
- Digital Multimeters
- Car bench / Car-O-Liners
- Temperature Controllers
- Timers
- Foot Pump Gauges
- Battery Discharge Testers
- Compression Testers
- Dial Gauges
- Tachometers
- Belt Tension Gauges
- Battery Chargers
- Anti-Freeze Testers
- Tyre Tread Gauges
- Tyre Pressure Gauges
- Paint Scales

## Specialist Testing and Calibration
- Crimping Tools
- Static Sensors
- Alarm Systems
- Depth Micrometers
- Screw Thread Gauges
- Height Gauges
- Hydrostatic Testing 18000 psi
- Harmonics
- Energy Meters (Defibrillation)
- Digital Calipers
- Plug Gauges
- Dial Gauges
- Ph Meters
- Electrical Installation
- External Micrometers
- Steel Tapes / Rules
- Slip Gauges
- Elcometers
- Photometers
- Durometers
- Internal Micrometer
- Ring Gauges
- Bore Micrometers
- Hydrometers
**Gas Monitoring Equipments** – We are the sole Agents for Crowcon Gas Detection Instruments in Nigeria, offering Sales, Calibration and Maintenance Services. We also calibrate and Maintain Several other Brands of Gas Detectors such as MSA, Dragger, RKI, BW Technology, Honeywell.

Below is the List of Gas detectors we handle

**Crowcon Gas Detectors**

<table>
<thead>
<tr>
<th>Portables</th>
<th>Fixed</th>
<th>Telegan</th>
<th>Control Panels</th>
</tr>
</thead>
<tbody>
<tr>
<td>-Tetra</td>
<td>-Xgard</td>
<td>-Spygas</td>
<td>-CellarSafe</td>
</tr>
<tr>
<td>-Tetra3</td>
<td>-Xsafe</td>
<td>-Sprint V</td>
<td>-Gas Flag</td>
</tr>
<tr>
<td>-Detective</td>
<td>-IREX</td>
<td>-Tempest 50</td>
<td>-GasMaster</td>
</tr>
<tr>
<td>-Triple Plus</td>
<td>-IRMax</td>
<td>-Tempest 100</td>
<td>-Vortex</td>
</tr>
<tr>
<td>-Triple Plus + IR</td>
<td>Nimbus</td>
<td></td>
<td>-GasMonitor</td>
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<tr>
<td>-Gasman</td>
<td>-Txgard –IS +</td>
<td></td>
<td>-Hydra 32 and 256</td>
</tr>
<tr>
<td>-Eikon</td>
<td>-Txgard Plus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-Crowcon Clip</td>
<td>-Flamegard Plus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-Crowcon Clip+</td>
<td>-Flameproof (Exd)</td>
<td></td>
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<tr>
<td>-Gas-Pro</td>
<td>-TCgard</td>
<td></td>
<td></td>
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<tr>
<td>-Gas-Tec MKv</td>
<td>-Flame Detectors</td>
<td></td>
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<tr>
<td>-Laser Methane Mini</td>
<td>-Flammable Gas Beta</td>
<td></td>
<td>-Open Path Gas Detector</td>
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<tr>
<td>MSA</td>
<td>DRAGGER</td>
<td>RKI</td>
<td>BW Technology</td>
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<tr>
<td>Altair 5x Multigas</td>
<td>Pac 3500</td>
<td>Eagle2</td>
<td>GasAlert Extreme</td>
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<td>Altair 4x Multigas</td>
<td>Pac 5500</td>
<td>GX 2012</td>
<td>GasAlert Clip</td>
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<tr>
<td>Altair Single Gas</td>
<td>Pac 7000</td>
<td>GX 2009</td>
<td>GasAlert Max XT II</td>
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<tr>
<td>Altair Pro Single Gas</td>
<td>X-am 2000</td>
<td>Gas Tracer</td>
<td>GasAlert Micro 5</td>
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<tr>
<td>Sirius Multigas</td>
<td>X-am 5000</td>
<td>RX 415</td>
<td>GasAlert Micro 5 IR</td>
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<tr>
<td>Solaris Multigas</td>
<td>X-am 5600</td>
<td>Eagle1</td>
<td>GasAlert Micro 5 PID</td>
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<td></td>
<td>X-am 7000</td>
<td>GasWatch2</td>
<td>GasAlert MicroClip XT</td>
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<td>X-zone 5000</td>
<td>-01 –Series</td>
<td>GasAlert Quattro</td>
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<td>SC -01</td>
<td>MicroDock II</td>
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<td>FP -30</td>
<td>Rig Rat II</td>
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<td>OX -82</td>
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<td>Beacon 110</td>
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<td>Beacon 200</td>
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<td>Beacon 410</td>
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<td>Beacon 800</td>
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<tr>
<td></td>
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<td>Pioneer 16R</td>
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Wellhead Services

Cascade Controls Limited provides cost effective wellhead services. Our experience and expertise ensures that we can install and maintain all types of wellheads. Our maintenance activities are supported by detailed procedures that reflect API specifications, and risk assessments that take account of recognized safety regulations. We offer:

- Wellhead Installation Services
- Wellhead maintenance
  - Pressure bleeding / monitoring
  - Visual inspections
  - Function testing of valves, chokes and actuators
  - Pressure testing of valves and interfaces
  - Inflow testing
  - Maintenance databases
  - Non-destructive testing
  - Lubrication
- Meter Proofing
- Provision of Wellhead Equipments and accessories
- Valve Fitting and maintenance services
- Repair, Refurbishment and Installation of all types Chokes

Project Commissioning

We provide project commissioning services - design, installation, testing, operation, handover and maintenance. Our team of Project Engineers ensures that the tenets and attributes of Project Management from Project Initiation/Planning to Closing is implemented in the life cycle of your projects to meet expected targets.

No matter the simplicity or complexity of your projects in the Oil and Gas industries, Manufacturing and construction, we will deliver on our promises.
Process Control and Instrumentation

Cascade Controls Limited assists in maintaining product quality and production schedules with expert process instrument installation, calibration and repair. We provide end user system integrators for analytical measurement solutions to control production Processes. Our tools and services ensure Control Process Optimization. With us, you can rely on customer service excellence grounded in industry-best practices. CCL technicians have extensive automation and instrumentation experience. In addition, individual expertise is coupled with high-level training and mentorship. Our instrumentation services include:

- Instrument calibrations
- Instrument installation, startup and troubleshooting
- System commissioning
- Onsite short or long term staffing
- Temperature/Pressure uniformity surveys
- System validation
- Boiler optimization and profiling
- Outage support
- Project services

Procurements

Our long standing partnership with renowned and certified original Equipment Manufacturers (OEM) coupled with our robust and updated database system ensures that we are able to provide you with the very best Equipment and tools at a price that is most competitive.

Our Engineering procurement services cover

- Gas Detectors
- Pumps
- Pneumatic systems
- Boosters
- Amplifiers
- Safety Instruments
- Valves
- Process Control and Instrumentation Equipments
Consultancy Services

Cascade Controls Limited provides specialist Consultancy services that helps our clients to cut product development costs, shorten lead times, extend capacity and maximize engineering resources availability by providing support across the complete product life cycle from design and modeling through analysis, prototyping, data documentation, instrumentation and controls, embedded systems development, manufacturing support and vendor management.

We cover:

- Optimization
- Verification/Validation
- Quality Control/Quality Assurance
- Root cause analysis
- Training and Management.
12th January 2012

TO WHOM IT MAY CONCERN.

Dear Sirs,

This is to confirm that Cascade Controls Ltd, who are based in Port Harcourt, Nigeris are the authorised distributor in Nigeria for Crowcon Detection Instruments Ltd.

I recommend them to you as being able to supply and support our range of portables and fixed systems gas detection equipment.

Should you have any queries regarding this matter, please contact the undersigned.

Yours faithfully,

[Signature]

Neil M Frew
Export Manager
Crowcon Detection Instruments Ltd.
CASCADE CONTROLS LIMITED QUALITY POLICY

It is the policy of CASCADE CONTROLS LTD to provide an effective and efficient inspection, test and allied services that meet and exceed customer expectations, regulatory and statutory requirement at optimal cost and also to continually improve the Company Quality Management System for effectiveness.

This Quality Policy is communicated, understood and implemented throughout the Company and is continually reviewed for continuing suitability.

Engr. Isaac Wonwu
Managing Director
HEALTH SAFETY AND ENVIRONMENT POLICY

Cascade Controls Limited’s long term success depends on our ability to continually improve the quality of our services and products while protecting people and the environment. Emphasis is placed on ensuring human health, operational safety, environmental protection, quality enhancement, and community goodwill. This commitment is in the best interests of our customers, our employees, contractors and the communities in which we live and work.

It is the specific responsibility of Management to ensure that safety is a primary condition at all times through Procedures, instrument and control. We recognize our responsibility to manage of activities in such a way that resources are conserved and utilized effectively. Accordingly, it is Policy of Cascade Controls Limited to:

- Give the highest priority to the Health, Safety and Security of employees, contractors and members of the public
- Achieve continuous improvements in HSE Performance
- Minimize our impact on the environment through pollution prevention, reduction of natural resource consumption and emissions, and the reduction and recycling of waste
- Set Quality & HSE performance objectives, measure results, assess and continually improve processes, services and product quality, through the use of an effective management system;
- Communicate openly with stakeholders and ensure an understanding of our HSE policies, standards, programs and performance. Reward outstanding HSE performance;

This Policy shall be regularly reviewed to ensure ongoing suitability. The commitments listed are in addition to our basic obligation to comply with CASCADE CONTROLS LIMITED standards, as well as all applicable laws and regulations where we operate.

Engr. Isaac Wonwu

Managing Director
WASTE MANAGEMENT AND RECYCLING POLICY

General Statement
It is our company policy to ensure a high level of commitment to good environmental policies throughout our business activities. It is our intention to develop this policy by minimizing the production of waste, through good purchasing practice of materials used throughout the business and reuse and recycle materials whenever practical to do so. To help ensure we give proper consideration to our environmental and waste management responsibilities and to assist in the minimization of waste and the recycling of materials wherever possible, systems and procedures will be implemented to encourage the recycling of material with a view to minimizing the overall levels of waste we produce. All staff are expected to abide by the following procedures and co-operate with management in the execution of this policy.

Specific Aims
As part of our commitment to protecting the environment and reducing waste levels, we have adopted the following specific aims:-

- Cultivate a work ethic with a high level of awareness of waste management, waste minimization and a desire to recycle and reuse materials when practical.
- Promote economy in the use of materials generally and in particular paper and the selection of print formats and document styles in our offices.
- Encourage the use of recycled/reclaimed materials; materials from sustainable sources and those that are suitable for disposal by recycling.
- Favor suppliers who actively operate according to sound environmental principles.
- Minimize waste by encouraging the exchange and reuse of equipment and materials amongst departments and on our construction sites.
- Develop waste management strategies that include recycling procedures and schemes.
- Encourage employees in our office and on our sites to promote and establish recycling schemes that are relevant to their individual activities.

Future Recycling
We are committed to expanding our recycling policy. Procedures for recycling other wastes will be developed and implements in the future.

Engr. Isaac Wonwu
Managing Director