



RC 670782

**INTEGRATED TOTAL
CONTROL SYSTEMS LTD**

...engineering solutions



CORPORATE PROFILE

INTEGRATED TOTAL CONTROL SYSTEMS LIMITED (ITCS) Nigeria is a multi-disciplined indigenous company that brings global expertise and products to its wide client base. ITCS provides Engineering and Services to the Industrial Sector, Oil and Gas & Power companies for enhancing the productivity and reliability of their plant operations. We integrate products and provide services for the Oil & Gas, Power, Refining, Agriculture, Mining, Aviation, Marine and Water industries.

Incorporated in 2006 to provide innovative flow measurement solutions, we quickly evolved into a full-fledged Engineering, Procurement, and Construction company. Today, we proudly represent Liquid Controls (LC), a global leader in precision flow meter technology.

ITCS builds on over 30 years of experience of its management in oil & gas industry in Nigeria and we have offered unblemished professional and timely services for the various industries over the years to our various clients.

We deliver access to the world's best technologies through long-standing and partnership relationships with world class Original Equipment Manufacturers and Engineering services providers. Our long experience in Nigerian industries enables us the use of established high caliber and experienced staff fully conversant with procedures and systems that meet our customers' requirement.



Vision

To be in the forefront in offering excellent engineering products and services with efficient, cost effective and best practice.



Mission

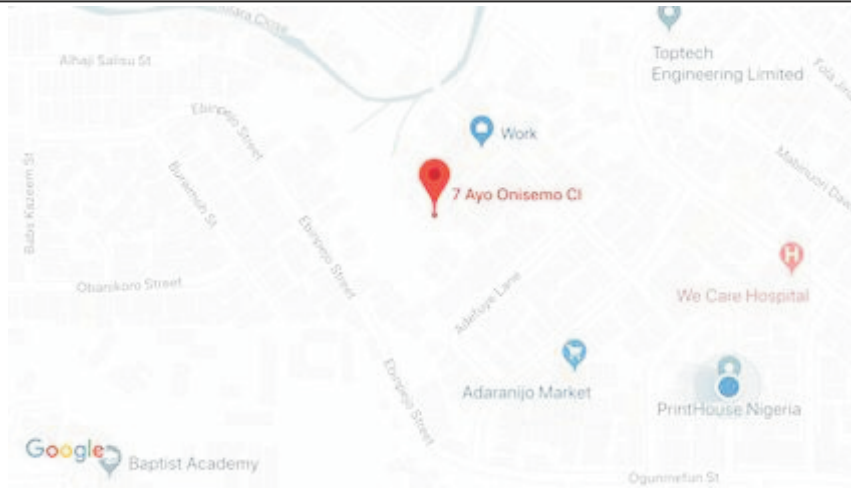
We will continue to improve and grow in engineering practices and thereby exceed the expectations of our clients and other stakeholders.



Core Values

Humility
Team spirit
Confidence
Creativity
Efficiency





CONTACTS/LOCATION

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PARTNERSHIP

Integrated Total Control Systems Limited (ITCS) is in strategic partnership and alliance with world renowned companies which invent and manufacture technologies that address some of the world's most critical challenges around energy, safety, security and productivity. We are thus uniquely positioned to blend physical products with software and professional services to support connected systems that improve industrial well-beings.

Our Partners Include:



Gassó Equipment is a Spanish company which manufacture and distributes integral solutions for the industry. Gasso specialized in the industrial supply of hoses and loading arms, as well as pipes and components related to the conduction of liquids, abrasives, pastes, semi-solids and gases. The company also has a division of electronic solutions for the automotive sector.

With these products Gassó Equipment is a manufacturer and distributor of integral solutions focused on the industrial sector, offering manufactured components, designed by our own team of engineers, and supplying a varied repertoire of products for maintenance.



Honeywell International Inc. is an American multinational conglomerate that makes a variety of commercial and consumer products, engineering services and aerospace systems for a wide variety of customers, from private consumers to major corporations and governments. The company invents and manufactures technologies that address

some of the world's most critical challenges around energy, safety, security, productivity and global urbanization.



As an IDEX Energy, Advanced Flow Solutions (AFS) brand, Liquid Controls is the global leader in precision measuring systems, providing highly engineered and differentiated products for custody transfer of valuable refined fuels and liquids. Established in 1954, Liquid Controls has been committed to delivering high-quality flow meters and accessories for accurate liquid measurement.

Their product portfolio includes the original positive displacement flow meters, designed for sustainable accuracy with zero wear and no metal-to-metal contact inside the measuring chamber. This results in maximum accuracy retention over time, fewer recalibrations, and longer service life. Today, Liquid Controls continues to set the global standard in flow meter technology, serving a wide range of industries, including refined fuels, LPG, aviation, oil and lubricants, fertilizers, agrochemicals, industrial chemicals, marine, renewable fuels, and DEF markets.

INDUSTRIES SERVED

Oil and Gas



We offer a comprehensive range of products and services to the Oil and Gas Industry, from engineering design and building of facilities and systems for handling of products at terminals at the upstream, refineries and storage terminals to provision of equipment, spares and services for efficient running of these facilities.

Manufacturing

We are well equipped to service and provide the required products for the smooth and profitable running of your plant.



Marine

We offer **Liquid Control'** ABS-approved piston & rotary positive displacement meters for a wide variety of applications including off-shore oil rig, shipping vessels, dock fueling dispenser and cabinets, workboat main engines and boiler feeds, power generation, and helicopter fueling. We also offer a full line of accessories including air eliminators, strainers, control valves, and pulse transmitters to meet customer requirements. LC meters are found both on and off shore around the globe serving the marine industry.



Honeywell International, we specialize in precision level measurement systems for marine applications and provides the **HERMetic** series, including world-class portable tank gauges for static verification of the tank content and liquid temperature. The portable equipment can also be used for calibration and verification of automatic tank gauging systems. **HERMetic** portable gauging and sampling equipment is an important tool for inventory control and cargo inspection during custody transfer. **Honeywell** offers full tank gauging solutions for cargo, ballast and service tanks, including monitoring of temperature and inert gas for all types of tankers, security management solutions integrating access control, video surveillance and intrusion detection, and network protection and control systems.



We also offer certified quality composite and other hoses from **Gasso** for handling loading and offloading of petroleum and chemical products to and from ships and berges



LPG/LNG

ITCS works with Honeywell offering industry leading gas control, measurement and analysis equipment to gas utilities and other users around the world. It offers expertise along the entire gas supply chain, with reliable products and systems that enable users to exercise full control over their regulating and measuring needs. All leading technologies are incorporated to provide complete solutions for the most demanding applications. This leads to reduced uncertainty, higher reliability, minimal risk and lower maintenance costs.



We offer integral solutions for the LPG / LNG industry: Hoses, Load Arms, Stairs, Fittings, Dry Disconnection Systems, etc. We manufacture, distribute and also carry out projects and maintenance of the equipment we supply so you do not have to worry about anything. All our products comply with the highest certifications both nationally and internationally.



ITCS is a trusted provider of LPG metering solutions, offering Liquid Controls (LC) meters and accessories for LPG bobtails, transport, bulk plants, and terminals. Our comprehensive solutions for the LPG/LNG industry include hoses, load arms, stairs, fittings, dry disconnection systems, and more.



AVIATION:

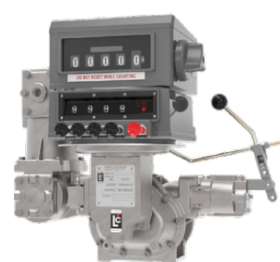
We offer the most reliable and accurate measuring instrumentation for the Aviation industry. Serving the Corporate and Private Aviation, Commercial Aviation and Military industries.



The LCR.iQ® is a powerful electronic register designed to transform the way you deliver fuel. With its advanced technology, it enhances accuracy, efficiency, and ease of use. Paired with automation solutions, it enables centralized management of delivery information across multiple locations and fleets, ensuring seamless operations from the home office.

AGRICULTURE:

Provide and service Equipment and Instruments that have long been considered the most reliable and accurate measuring instrumentation for the Agricultural industry. Serving the Co-op Agribusinesses, Plant Food Applicators, OEM Automation Systems, Crop Protection Chemical Dealers and Growers.



The Liquid Controls M-5® positive displacement flow meter is designed for precise measurement of industrial chemicals, solvents, pesticides, fertilizers, chlorinated solvents, paints, inks, alcohols, molasses, corn syrup, and other demanding liquid applications. Available in aluminum and stainless steel with various seal options.

SERVICES

Engineering and Project Planning

We carry out custom Engineering and Project Support services such as:

- Site Survey – an inventory of existing equipment/facility and evaluation to determine the necessity of additional maintenance or repair, keeping in mind the customer's budget
- Consulting - Engineering Studies to align operational and business objectives with project objectives to help maximize the value from systems and facilities to improve the return on investment through the facility's lifecycle. May involve:
 - * Project planning.
 - * Functional Design and Specifications
 - * Product Selection



Engineering Support Services

- Integrity tests are carried out on vessels, storage tanks and pipelines
- Installation and facility maintenance
- Field, Instrumentation Health check and calibration for Terminals and industrial instruments. We check and correct to the industrial recommended standards with up -to date, duly certified equipment with traceability to internationally recognized laboratories and authorities.
- Provide continuity for operation of tank farm and industrial field instruments



Terminal/Industrial Operation Services:

* Pre – Installation

- Project planning
- Site survey
- Functional Design and Specifications
- Product Selection
- Consulting

* At Installation

- Hardware and Software Supply
- Installation
- System configuration and Integration

* Post Installation

- Commissioning
- Acceptance Testing
- System Optimization
- On-site service program and OEM extended warranty

* Customer support services

We provide supports to our clients to ensure max benefits on their equipment and facilities by:



- Control work-around for problems that cannot be solved by the user
- Diagnosing system functions that appear not to be working properly
- Installation support for software upgrade and equipment
- Hardware and software integration and compatibility advise.
- The result of these services is maximum return on the users' technology investment through personalized service and assistance throughout the lifecycle of the process installation.

PRODUCTS/SYSTEMS

Few of the Products and Systems we provide are categorized herein:

Flow Measurement and Control



Liquid Controls (LC): The LC M-Series™ positive displacement meters utilize a tri-rotor design that eliminates metal-to-metal contact, ensuring $\pm 0.1\%$ accuracy with minimal wear and extended service life. These meters offer a low-pressure drop of ~ 2.3 PSI and operate across a wide flow range from 6 to 1000 GPM (20 to 3780 LPM) with a temperature tolerance of -40°F to 160°F (-40°C to 71°C). Designed for custody transfer applications, LC meters meet NTEP (NIST Handbook 44), Measurement Canada, OIML, and Military Weights and Measures specifications. The LC MA-Series™ reciprocating piston meters

provide high-pressure operation up to 350 PSI (24 BAR, 2414 kPa) and one of the widest turndown ratios in the industry. With flow rates ranging from 5 to 200 GPM (19 to 756 LPM), these meters are optimized for LPG, anhydrous ammonia (NH_3), and refined fuels. The MSA-Series™ meters, designed for bulk liquid transfer, handle up to 1000 GPM (3785 LPM) at 285 PSI (19.7 BAR, 1965 kPa), making them ideal for high-viscosity fluids such as crude oil, asphalt emulsions, resins, and industrial chemicals.

LC meters can function with mechanical registers, electronic registration (LCR.iQ®), and high-resolution pulsers for seamless integration into automated systems. The pulser option enables real-time data transmission, making it suitable for SCADA, PLC, and remote monitoring applications. Additional accessories include integrated air elimination, strainers, and preset valve options to meet the highest industry demands. Proven since 1956, Liquid Controls continues to deliver precision, reliability, and longevity in fuel and liquid measurement systems worldwide.



Honeywell Versaflow Meter

The VersaFlow range of flow meters provides accurate measurement of mass flow, density, volumetric flow rate and temperature for gases, pastes, liquids with low viscosity and applications where users unwilling or unable to cut into the process measurement line to install an in-line meter.



VersaFlow Clamp-on Ultrasonic Flow Meters

Honeywell's VersaFlow Clamp-on Ultrasonic flow meters measure liquids in industrial applications. Because the sensor is clamped on to the outside of the pipe, it is immune to the process compatibility concerns of an in-line flow metering technology.



VersaFlow Coriolis Mass Flow Converter

Mass flow transmitters provide accurate information to measure mass flow, density, volumetric flow, and temperature of liquids and gases in a wide range of industrial applications. Honeywell's VersaFlow Coriolis Mass Flow Converter, together with the relevant VersaFlow Coriolis Mass Flow sensor, significantly enhances product quality and productivity in industries such as oil and gas, chemicals and petrochemicals, food and pharmaceuticals.



VersaFlow Coriolis Mass Flow Sensors

Mass flow sensors measure multiple variables such as mass flow, density, volume flow and temperature of liquids and gases. They are used largely in industrial and manufacturing operations where an end-product's quality depends on the accuracy of these process measurements.

Honeywell's VersaFlow Coriolis Mass Flow sensors are highly versatile and customizable, and offer precise flow information to users across a wide-range of industries such as oil and gas, chemicals, petrochemicals, food and pharmaceuticals.

Versaflow Magnetic Flow Sensors

VersaFlow Magnetic Flow Sensors are highly versatile, customizable and offer precise flow measurement for conductive liquids, pastes and slurries. The sensors provide accurate flow measurement in a range of applications, including rapidly changing media, pH jumps, large amounts of solids or pulsating flow.



• VersaFlow Vortex Shedding Flow Meter

Honeywell's VersaFlow Vortex Shedding flow meters are ideal for measuring steam, gasses, volumetric flow rate and low viscosity liquids in industrial applications. With built-in temperature and optional built-in pressure compensation, the flow meters are the most versatile products in their category.

.Terminal Operations

Calibration and Verification



Honeywell's Small Volume Provers and controllers enable accurate and traceable custody transfer and comply with all major international standards. Users benefit from increased calibration flexibility, faster and more efficient proving and significant cost savings.



Loading Automation

Additive Injection Systems

Additive pump
skid



Fusion4 MSC-L

Fusion4 MSC-L is the world's most advanced multi stream controller for loading operations. Custody-transfer approved loading for up to 24 meter streams simultaneously and other advanced features mean fewer, more powerful devices for road loading, rail, marine and tank farm operations.



Honeywell Securiterre – For truck/tanker grounding:

Designed to prevent static accumulation and discharge during tanker loading and off-loading, the Securiterre ensures correct bonding and grounding procedures before product transfer.

The Securiterre continuously monitors the static earth path and carries out a unique “tanker verification” when connected.

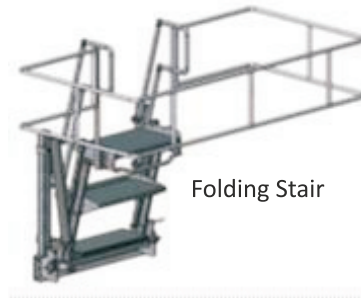


Loading Arms and accessories

We supply Gasso loading, unloading equipment and loading rack accessories which include top and bottom loading arms, folding stairs and accessories



Top Loading arm



Folding Stair

Tank Storage

Radars Tank Gauging

SmartRadar FlexLine suitable for highly accurate level measurement on large bulk storage tanks. SmartRadar FlexLine combines new software algorithms with Honeywell Enraf's planar antennae technology to provide precision levels demanded for custody transfer accuracy.



Servo Tank Gauging

The servo level gauging technology from Honeywell Enraf includes the Advanced Tank Gauge (ATG) and the Xmitting Tank Gauge (XTG). The ATG and XTG series microprocessor-controlled servo gauges are compact and need only a 2" mounting flange.



Other Level Instruments

SmartLine Level Transmitters

Pressure Transmitters

Temperature Transmitters & Sensors



Wireless Instrumentation



OneWireless™ Solutions help sites tackle critical industrial challenges in the areas of reliability, safety and process efficiency. The solutions comprise Honeywell's distributed control system, wireless field instruments, mobile computing devices, wireless networks, advanced applications and facility management applications. The solutions also include Honeywell's engineering services such as consulting, design, installation, commissioning and support that play a key role in ensuring a turnkey experience that protects users' wireless investment. If users have a problem, we have the solution.

Control, Monitoring and Safety Systems

Process control has been transformed beyond traditional Distributed Control System (DCS) functionality by unifying assets, processes and people to improve business agility. Our Control, Monitoring and Safety Systems deliver integrated process control and advanced safety with better lifecycle support to protect and future-proof users' investments.

*** Digital Video Manager**



Digital Video Manager (DVM) is Honeywell's unique digital video solution that seamlessly integrates with Experion PKS and Experion Industrial Security platforms, delivering enterprise-wide access to process and security video.

*** Integrated Control and Safety Systems**

Honeywell's integrated process control and advanced safety systems include Experion® PKS that transforms process control beyond traditional DCS functionality by unifying people with process variables, business requirements and asset management.

*** Integrated Fire and Gas Solution**



Honeywell's integrated fire and gas solution provides a rapid and coherent operational response to emergency situations, ensuring maximum plant uptime.

*** Materials Handling**

Honeywell provides solutions for material handling needs of various industry applications, including automated train loadout systems, and conveyor belt monitoring for mining, metals and minerals industries.

*** SCADA Systems**

Experion SCADA is a powerful software platform that incorporates innovative applications for human machine interface (HMI) and supervisory control and data acquisition (SCADA).





Terminal Manager

Users can employ Terminal Manager to automate workflows, improving productivity as well as terminal safety and security. To automate workflows primarily among various customers, products, tanks, and users must be configured into the system. This enables the creation of open orders, scheduled open orders and contracts, as well as execution of these orders through shipments (along with stringent validations at each stage). Workflow automation is available for other modes of transport apart from surface, such as marine and rail, as well.

Analytical Instrument



Contacting Conductivity Cells

A complete line of conductivity cells and instruments help measure, analyze and transmit valuable conductivity, resistivity and concentration information in all types of industrial process applications—from ultra-pure water up to acid/base concentrations.



Dissolved Oxygen Probes

Honeywell's DL5000 Dissolved Oxygen Probe is based on a unique and patented equilibrium probe technology that is accurate, reliable and maintenance-free. The DL5000 is a no-internal maintenance probe independent of process flow and fouling.



HPW7000 High Purity Water System

The HPW7000 High Purity Water Measurement System is an electrode mounting assembly designed specifically for difficult pH and ORP measurements in high-purity water applications. The system's special flow chamber and electrode mounting simplifies installation and calibration while providing a pH or ORP measurement that is unsurpassed in accuracy and stability.



UDA2182

The innovative UDA2182 Universal Dual Analyzer provides the most versatile and flexible are multiple-input analyzer platform on the market for measurement of pH, ORP, conductivity and dissolved oxygen. Its easy-to-configure set-up, re with measurement-specific, menu-driven prompts and simple operation, gets you started quickly.



HB Series pH Electrodes

Honeywell's HB Series Electrode Mountings designed for harsh applications such as wet scrubbers. The unique reference electrode design resists poisoning and ference junction fouling.





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