



fireworld
SAFETY SYSTEMS

PRODUCTS & SYSTEMS

Process Safety · Safety Automation · Work Environment Safety

Oil & Gas · Energy · Manufacturing & Industrial



About Fireworld

Fireworld Safety Systems is Uganda's specialist in industrial process safety and safety automation — engineering, supplying and maintaining the complete ecosystem of products and systems that protect people, plant and production across the most hazardous industrial environments in East Africa and beyond.

ISO 9001, 14001 & 45001 Certified | Authorised partner: Dräger · Johnson Controls · NETZSCH



Who We Are *Uganda's Specialist in Industrial Process Safety & Safety Automation*

Fireworld Safety Systems is the foremost specialist in industrial process safety and safety automation in Uganda and East Africa. Founded in 2012 and headquartered at the Namanve Industrial Park, Kampala, we engineer, supply and maintain the complete ecosystem of fire protection, gas detection, safety automation and work environment safety systems that protect people, plant and production.

As the authorised distributor and engineering service partner for Dräger, Johnson Controls and NETZSCH, and certified to ISO 9001, 14001 and 45001, Fireworld delivers international standards of fire and process safety to multinational operators in oil & gas, energy, manufacturing and industrial sectors across Uganda, Kenya and Tanzania.

12+

Years in Operation

3

Countries: UG · KE · TZ

500+

Systems Deployed

4

ISO Disciplines

24/7

Emergency Response

Our Core Disciplines

Engineered Safety Systems

- Process Safety & Safety Instrumented Systems (SIS / ESD)
- Fire Detection & Suppression — VESDA, Sprinklers, Clean Agent, Foam, Water Mist
- Fixed Gas Detection & ATEX Certified Equipment
- SCBA & Industrial Respiratory Protection (Dräger)

Support Services & Supplies

- Suppression Agent Cylinder Refill & Calibration Gas Supply
- ATEX Electrical — Couplings, Lighting, Controls & Instruments
- Consumables, Spares & In-Country Maintenance Stock
- Engineering, Commissioning, Inspection & Training Services

OIL & GAS | ENERGY & POWER | MANUFACTURING | PHARMACEUTICALS | DATA CENTRES | AVIATION

Authorised Technology Partners

Dräger
DRÄGER SAFETY

Gas Detection · SCBA · Respiratory Protection

Johnson
Controls
JOHNSON CONTROLS

Fire Alarm · Suppression · Building Safety

NETZSCH
Proven Excellence.
NETZSCH

Industrial Pumps · Process Equipment

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01 Process Safety & Safety Automation Systems

SIS · ESD · Fire & Gas · Burner Management · PLC / DCS / SCADA

Process safety automation is the engineering backbone of safe industrial operations. Fireworld designs, supplies, integrates and commissions the full stack of safety automation systems — from Safety Instrumented Systems certified to IEC 61508/61511 and Emergency Shutdown systems, through to SCADA platforms and Burner Management Systems governing the day-to-day operations of energy, oil & gas and manufacturing facilities.

Safety Instrumented Systems & ESD

- SIL 1–3 rated Safety Instrumented Systems — IEC 61511
- Emergency Shutdown (ESD) — wellhead, pipeline, process plant
- Fire & Gas (F&G) detection and control systems
- Burner Management Systems — NFPA 85 / IEC 61511
- High Integrity Pressure Protection Systems (HIPPS)
- SIL verification, HAZOP, LOPA and functional safety assessments

PLC / DCS / SCADA Control Systems

- PLC: Allen-Bradley, Siemens S7, Schneider Modicon
- DCS: Honeywell Experion, Emerson DeltaV, ABB 800xA, Yokogawa
- SCADA: Wonderware (AVEVA), Ignition, WinCC, FactoryTalk
- HMI: Control room console design, alarm management (EEMUA 191)
- OT Cybersecurity: IEC 62443 compliant network architecture
- Networking: Profibus, Modbus TCP, Foundation Fieldbus, OPC-UA



02 Fire Detection & Suppression Systems

Fire Detection & Suppression Systems

Fireworld provides the full spectrum of fire detection and suppression technologies — from very early smoke detection for critical IT and electrical infrastructure, through to industrial-scale foam deluge systems for tank farms and LPG facilities. Every system is hydraulically calculated, engineered to BS EN or NFPA standards, and commissioned and certified by our qualified fire protection engineers.

Detection & Alarm Systems

- VESDA / aspirating very early warning smoke detection
- Addressable and conventional fire alarm systems (Johnson Controls / JCI)
- UV/IR and multi-spectrum flame detection
- Linear heat detection for cable trays, conveyors and tunnels
- Duct smoke detection for HVAC systems
- Mass notification and voice evacuation systems
- Standards: NFPA 72, BS 5839, EN 54

Suppression Systems

- Wet, dry, deluge and pre-action sprinkler systems — NFPA 13
- Clean agent: FM-200, Novec 1230, CO2, Inergen — NFPA 2001
- Water mist — high-pressure, turbines, machinery, engine rooms
- Foam suppression: AFFF, AR-AFFF — tank farms and bund areas
- Ansul R-102 vehicle and kitchen suppression systems
- Standards: NFPA 11, 13, 750, 2001 | BS EN 12845, 15004



03 Fixed Gas Detection & SCBA (Dräger)

Flammable · Toxic · Oxygen · Open Path · ATEX / IECEx Zone 0, 1, 2

As an authorised Dräger distributor, Fireworld designs, supplies, installs and maintains comprehensive fixed gas detection networks and SCBA programmes — from individual point detectors to multi-zone systems with SCADA integration — across Zone 0, Zone 1 and Zone 2 hazardous areas. All Dräger equipment is ATEX and IECEx certified to IEC 60079.

Fixed Gas Detection Systems

- Dräger POLYTRON 8700 IR / 7000 fixed point gas detectors
- Flammable gas: catalytic bead and infrared LEL detection
- Toxic gas: H₂S, CO, SO₂, Cl₂, NH₃, HF, HCN and custom gases
- Oxygen depletion and enrichment monitoring
- Open-path infrared (OPIR) large-area gas detection
- Acoustic gas leak detection for high-pressure pipelines
- Standards: ATEX / IECEx / IEC 60079 / BS EN 60079

SCBA & Respiratory Protection (Dräger)

- Dräger PSS 5000 — open-circuit SCBA for emergency response
- Dräger PSS BG4 Plus — closed-circuit extended-duration BA
- Panorama Nova P full-face masks for high-hazard environments
- X-plore 3500/6500 industrial half and full-face respirators
- X-am 5600 portable multi-gas detector for confined space entry
- BA compressed air fill stations and cylinder management
- Respiratory fit-testing, training and annual service programmes

04 Suppression & Calibration Gas Supply

Agent Refill Station · Calibration Gas Mixtures · Bump Test Gas

Fireworld operates East Africa's most advanced on-site suppression gas refilling station at Namanve Industrial Park — providing in-cylinder refill of FM-200, CO₂, Inergen, IG-55 and IG-541 suppression agents, calibration gas mixtures to IEC 61882 / ISO 6142 traceability standards, and bump test gas cylinders. This eliminates the procurement lead times that left critical safety systems unprotected while awaiting overseas supply.

05 ATEX Electrical — Controls & Instruments

Zone 0 · Zone 1 · Zone 2 · IECEx Certified

Fireworld supplies a comprehensive range of IECEx and ATEX certified electrical equipment for hazardous areas — verified against area classification documentation and installed by trained Ex personnel. Coverage includes cable glands, junction boxes, luminaires, control panels, instruments and field devices.

06 Consumables & Maintenance Supplies

Suppression Media · Detector Spares · Seals & Gaskets · PPE · Extinguishers

Fireworld maintains a comprehensive in-country inventory of consumables, spares and maintenance materials across all major product categories. Stock is held at Namanve for immediate delivery to site — eliminating the overseas supply lead times that compromise safety system availability.



07 Engineering & Technical Services

Design · SIL Verification · HAZOP · Installation · Commissioning · Training

Fireworld's service proposition extends well beyond equipment supply. We are a technically accountable engineering partner that designs, installs, commissions, verifies, inspects and trains across the full lifecycle of every system we deliver. This end-to-end accountability is the defining feature of our model and the reason our clients return for subsequent projects.

Engineering Design Services

- Fire protection hydraulic design — NFPA 13 / 14 / 15 / 750, BS EN 12845
- Fixed gas detection layout and zone classification design
- Clean agent and inert gas suppression sizing — NFPA 2001 / ISO 14520
- Functional safety engineering — SIL assessment, HAZOP, LOPA
- Cause & Effect matrix and logic solver programming
- ATEX area classification and Ex equipment schedule
- As-built drawings, compliance dossiers and technical documentation

Field & Technical Services

- System installation, testing and commissioning — full project management
- Annual and periodic inspection and maintenance contracts
- SIL verification and proof testing of safety instrumented functions
- Third-party inspection and witnessing of suppression system discharges
- Confined space entry supervision and gas monitoring services
- Fire safety training: fire marshal, SCBA, ERT formation and drills
- 24/7 emergency callout and rapid response repair service

OIL & GAS | ENERGY | MANUFACTURING | CHEMICAL | PHARMA | DATA CENTRES

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Capability & Standards *Services by Sector · Standards Reference*

Capability by Sector

Capability	Oil & Gas	Energy	Manufacturing	Pharma	Data Centres	Aviation
Process Safety & Safety Automation (SIS / ESD)	✓	✓	✓			✓
Fire Detection & Suppression Systems	✓	✓	✓	✓	✓	✓
Fixed Gas Detection & ATEX Equipment	✓	✓	✓	✓		
SCBA & Respiratory Protection	✓		✓			✓
Suppression Agent Refill & Calibration Gas	✓	✓	✓	✓	✓	
ATEX Electrical — Controls & Instruments	✓	✓	✓			
Consumables & Maintenance Supplies	✓	✓	✓	✓	✓	✓
Engineering, Commissioning & Training	✓	✓	✓	✓	✓	✓

Standards & Codes of Practice

Standard / Code	Application
NFPA 13 / BS EN 12845	Sprinkler system design & installation
NFPA 14	Standpipe and hose systems
NFPA 72 / BS 5839	Fire detection & alarm systems
NFPA 750	Water mist fire protection systems
NFPA 2001 / ISO 14520	Clean agent fire extinguishing systems
IEC 61508 / 61511	Functional safety — safety instrumented systems
IEC 62443	OT cybersecurity for industrial networks
ATEX / IECEx	Equipment in explosive atmospheres
ISO 9001 / 14001 / 45001	Quality, environment & OH&S management

Why Partner with Fireworld?

Five reasons multinational operators choose us as their East Africa safety partner

Full-Stack Engineering Accountability	Unlike equipment-only distributors, Fireworld designs, installs, commissions, inspects and maintains every system we deliver — providing a single point of technical accountability across the full project and asset lifecycle. Clients receive one partner, one contract and one team from concept to certification.
Authorised Partner for Global Technology Leaders	Our partnerships with Dräger Safety and Johnson Controls give clients direct access to world-class fire and gas safety technology backed by manufacturer-level technical support and genuine spare parts — without the overhead of dealing with overseas principals directly.
In-Country Supply Chain — No Lead Times	With an established inventory at Namanve Industrial Park and operations across Uganda, Kenya and Tanzania, Fireworld eliminates the procurement lead times that compromise safety system availability. Calibration gas, suppression agent refills, detector spares and consumables are available from stock, on demand.
International Standards, Local Accountability	All Fireworld systems are designed and certified to NFPA, BS EN and ISO standards — the same standards applied at comparable facilities worldwide. ISO 9001, 14001 and 45001 certifications provide documented assurance for corporate compliance, regulatory approval and insurance requirements.
Regional Scale with Project Execution Capability	Fireworld has the engineering team, field force and project management capability to deliver complex, multi-discipline safety projects across East Africa — to schedule, to standard, with full as-built documentation and handover dossiers.

Contact Us *Uganda · Kenya · Tanzania*



Fireworld Safety Systems engineering and commercial teams are available to discuss your project requirements, conduct site assessments, and prepare technical proposals and quotations.

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ISO 9001:2015
Quality Management

ISO 14001:2015
Environmental Management

ISO 45001:2018
Occupational Health & Safety

Fireworld Safety Systems is committed to protecting people, plant and production across East Africa's most critical industrial environments — delivering international safety standards with local engineering accountability.

