

# EXPLOSION PROTECTION



THORNE &  
DERRICK  
INTERNATIONAL

35 YEARS

Experts in Equipment for  
Explosive Atmospheres



**TOTAL SUPPLY** • CONTROL PANELS • PLUGS • ISOLATORS • LIGHTING  
ENCLOSURES & JUNCTION BOXES • CONTROL STATIONS • MOTOR STARTERS  
HEAT TRACE • GAS DETECTION • FLAME DETECTION • PROCESS INSTRUMENTATION  
PROCESS HEATING • VENTILATION FAN • SECURITY ACCESS CONTROL





THORNE &  
DERRICK  
INTERNATIONAL



## 100,000+ PRODUCTS 100+ BRANDS

Thorne & Derrick International were established in 1985 and are now one of the largest experts in equipment for explosive atmospheres and worldwide exporters of Process Heating, Power & Control, Lighting, Instrumentation and LV HV Electrical Equipment for industrial and hazardous area applications – we have a solid reputation for knowledge, service and integrity.

Understanding client demands is key to our business strategy as is our commitment to providing fit for purpose, independent technical proposals that fulfil customer specifications. We also strive to bring product innovation to our clients to help develop safer, more reliable and cost efficient working procedures.



SOLAR



WIND



OIL & GAS



WATER



POWER



PETROCHEMICAL



RAIL



PHARMACEUTICALS



MINING &  
QUARRYING



FOOD &  
BEVERAGE



CONSTRUCTION



MANUFACTURING



## 35 YEARS OF SERVICE



INTEGRITY



KNOWLEDGE



RELIABILITY



# LIGHTING

## Portable, Temporary & Fixed Light Fittings

Hazardous area lighting and luminaires including linear, wellglass, floodlight and bulkhead lights certified by ATEX & IECEx for Zone 0, Zone 1/21 & Zone 2/22 lighting in potentially explosive gas and dust atmospheres.

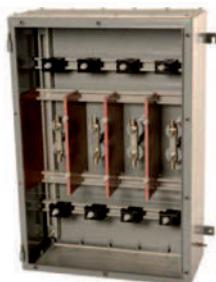
Site survey and design service available to enable the upgrade from fluorescent to high performance, long-life LED technology.



# ENCLOSURES & JUNCTION BOXES

## LV, MV, HV up to 45kV

Enclosures for instrumentation, power or control applications – stainless steel, mild steel, glass reinforced polyester, aluminium and polycarbonate. Certified according to ATEX and IECEx.

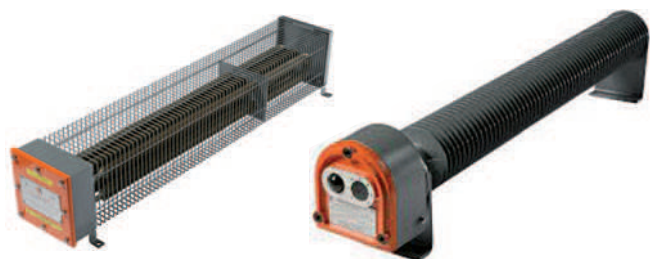




# PROCESS & SPACE HEATING

## Immersion, Air, Line & Water Heaters

Hazardous area electrical heating provides frost protection and process temperature maintenance of liquids and gases in potentially explosive atmospheres, including Zone 1 and Zone 2.



NEW EXHEAT "The Bulldog" - the world's first truly portable hazardous area fan assisted heater for hazardous area location heating.



# ELECTRICAL HEATING

## Drum, IBC, Tank & Hose – Customised & Bespoke Solutions

Highest performance heating for temperature control and frost protection of bulk containers (IBC's), storage drums, pumps, pipes, tanks and gas bottle cylinders.

T&D deliver customised heating solutions on the shortest UK lead times - we discuss the initial concept, agree a bespoke design, start manufacture and deliver compliant heating solutions.



# HEAT TRACING CABLE & SYSTEMS

## Self Regulating, Mineral Insulated, Constant Wattage & Instrument Tubing Bundles

Trace heating cables provide frost protection and process temperature maintenance to pipes, vessels, tanks, hoppers, valves and drums – process heating of aggressive organic and inorganic chemicals up to 550°C.



# CONTROL STATIONS & PUSHBUTTONS

Stainless Steel, Aluminium & GRP

Hazardous area control stations, surface or panel mounted, for potentially explosive atmospheres and suitable for Zones 1 & 2 gas and Zone 21 & 22 dust environments – various push buttons, emergency stops, switches, mushroom heads and indicator lamps integrated into control station.

Explosion proof and Intrinsically Safe equipment is available to support power distribution and machinery in industrial and hazardous areas.

**TECHNOR**  
ITALSMEA

**CEAG**

**PEPPERL+FUCHS**

**EMERSON**

**APPLETON**



## HAZARDOUS AREA CONTROL PANELS

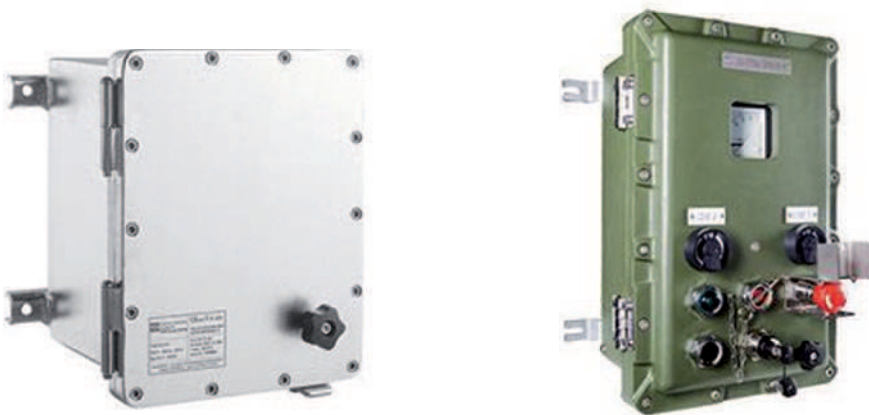
Ex d (Flameproof)

Custom made control panels and distribution boards designed and manufactured to client specification for use in hazardous areas. International certification options including ATEX, IECEx, EACEx & TRCU. Robust Ex-d flameproof enclosures.

**TECHNOR**  
ITALSMEA

**EMERSON**

**APPLETON**



# SIGNALLING

## Sounders, Beacons & Call Points

Explosion proof audible and visual signalling devices for fire and gas detection in industrial onshore, marine and offshore hazardous locations.



# PLUGS, SOCKETS & ISOLATORS

## Safe Disconnect Under Load

LV power supply and distribution products include industrial, high current and high temperature plugs, sockets and deconnectors with integrated switches for Zone 1/21 and Zone 2/22 hazardous areas – explosion proof connectors are available for copper, coax and fibre optic contacts with ATEX and IECEx certification.



# HEAT, FLAME & FIRE DETECTION

## Cables, Sensors & Detectors

Advance warning of overheating and early stage detection of heat, flame and smoke to prevent fire – analogue, digital and fibre optic fire and heat detection cables are available.

**PATOL**  
FIRE DETECTION SOLUTIONS

**SPECTREX INC.**



## GAS DETECTORS

### Portable & Fixed

Single and multi-gas detectors for toxic and flammable gases in industrial and hazardous areas including hydrogen sulphide, methane, carbon monoxide and offshore hydrocarbon gases.

**CROWCON**  
Gas Detection You Can Trust





# ATEX FAN HEATERS

## Portable & Temporary Heating Solutions

EXHEAT Industrial's MFH 'The Bulldog' Portable Fan Heater is the world's first truly portable hazardous area fan assisted heater.

The Bulldog combines efficient design with simple functionality to provide a Portable Heating Solution for use in Hazardous Environments where the atmosphere is classified as Zone 1/21 and Zone 2/22 (IIA, IIB and H2).



**Certified for use  
in Zone 1/21 &  
Zone 2/22  
Hazardous  
Areas.**



### FEATURES:

- Compact & Lightweight
- Up To 6kW Heat Output
- Voltages 110V - 690V (50/60Hz)
- IP65

### CERTIFICATION:

#### ATEX

Ex II 2 GD Ex h  
Ex db eb IIB + H2 T3 to T4 Gb  
Ex tb IIIC T200°C to T135°C Db

#### IECEx

Ex db eb IIB + H2 T3 to T4 Gb  
Ex tb IIIC T200°C to T135°C Db

CU-TR (EAC) and CSA US (Pending)





# ATEX FAN HEATERS

## Fixed & Portable Heating Solutions

EXHEAT's LFH Fixed Fan Heater combines superior efficiency with simple functionality to provide a next-generation heating solution for use in onshore and offshore hazardous environments where the potentially explosive atmosphere is classified as Zone ½ (IIB+H2) – T3 and T4 temperature classes. The heater framework permits mounting options on floors, walls and ceilings.



### FEATURES:

- Robust & Non-corrosive Stainless Steel
- Up to 40kW Heat Output & 46 Degrees Celsius Temperature Rise
- Plug & Play or Hard-Wire
- 230V – 690V 50 / 60Hz
- Portable & Can be Ducted (Front or Rear)
- Ambient Temperature Range -40 to +40 Degrees Celsius

### CERTIFICATION:

#### ATEX

Ex II 2 G D Ex h  
Ex db eb IIB+H2 T3...T4 Gb  
Ex tb IIIC T200°C...T135°C Db

#### IECEx

Ex db eb h IIB+H2 T3...T4 Gb  
Ex tb IIIC T200°C...T135°C Db

#### CU TR (EAC)

1Ex db e IIB+H2 T4...T3 Gb X  
Ex tb IIIC T135°C...T200°C Db X



# ATEX & IECEx FANS

## Ventilation Fans

The Exstream is the worlds first portable ventilation fan to be ATEX & IECEx certified to both electrical and non-electrical standards. The fan offers a global safety solution for hazardous area ventilation.



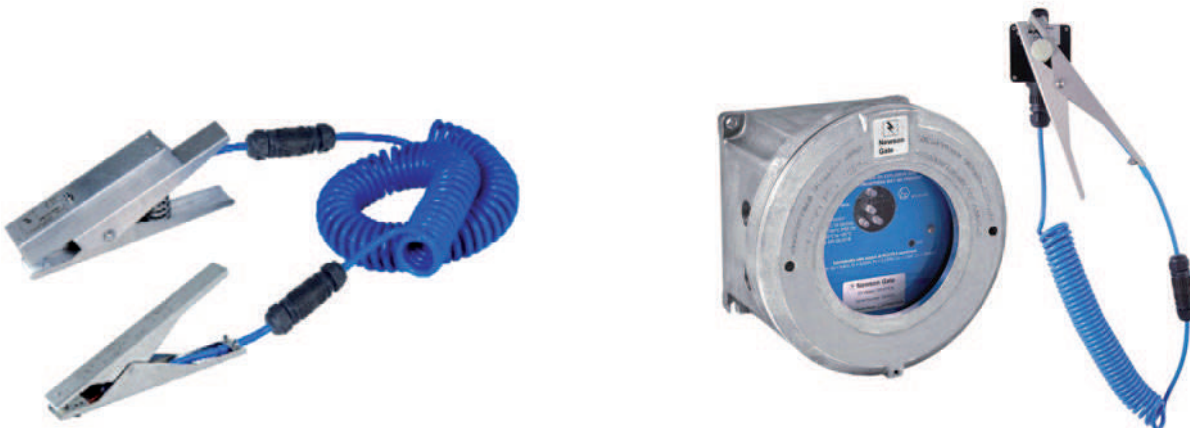
### FEATURES:

- Class Leading Airflow: Up to 7750m<sup>3</sup>/hr
- Robust: Mild Steel or Stainless Steel Casing
- Low Power Consumption: <8A FLC
- Low Noise Output: 49db
- Easy to Use: Plug & Play Fan
- Voltage Options: 110V/230V & 3-Phase Options Available



## STATIC GROUNDING EQUIPMENT

Electrostatic discharge can cause fire and explosions in explosive atmosphere. Understanding of the application and correct product specification serves to protect employees. For the safest static grounding solutions, speak to our specially trained team to discuss your requirements and ensure compliance.



# SECURITY & ACCESS CONTROL

## Electronic Access Control & Door Locking

The Securex Maglock is the worlds only ATEX & IECEx certified magnetic door lock. The device works with both the SecurEx door controller and access products as well as other third party ACU systems providing a highly effective security solution with the ability to withstand loads of up to 500 kgf.



## CCTV Camera Stations & PIR Motion Detector

Harsh industrial and ATEX/IECEx certified CCTV equipment for use in explosive atmospheres. Also launching in 2020 is a new ATEX certified PIR detector which can be used as part of intruder alarms, access controls or for lighting control.





# COSHH & HAZARDOUS SUBSTANCE STORAGE CABINETS

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Range of indoor & outdoor storage cabinets for hazardous and flammable substances. Provides safe storage of oils, paints, inks and chemicals. Temperature controlled and ATEX options available to comply with Zone 1/21 & Zone 2/22 explosive atmospheres.



# EMERGENCY SAFETY SHOWERS

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Range of emergency safety showers, eyebaths and decontamination units for use in industrial and hazardous areas. Compliant with the US ANSI standards and the latest EC directives in Europe, including ATEX Directive.



# PROCESS INSTRUMENTATION

## Flow, Temperature, Pressure & Level Measurement

Sensors, transmitters, probes, instruments and meters for reliable and accurate process measurement in potentially explosive atmospheres.

**KROHNE**

**katronic**  
||||| ||| |||

**rotronic**

**SICK**  
Sensor Intelligence.

**VEGA**

**EMERSON**



# SOLENOID VALVES

## SIL3 NACE ATEX NAMUR Valves

General service and hazardous area location 2-way, 3-way and 4-way solenoid valves to handle flow control of liquid, gas, steam and oil in both onshore and offshore installations.

**ASCO**  
**numatics**

**EMERSON**



# COMMUNICATIONS

## Smartphones, Tablets & Computers

Mobile computing and communication technologies for use in Zone 1/21, 2/22 explosive atmospheres.



## LV-HV CABLE ACCESSORIES

### Joints, Terminations, Glands & Cleats

LV-HV cable accessories to support the installation of power cable circuits in hazardous area locations – UK's largest 3M Stockist for Cold Shrink and Scotchcast joints and terminations up to 33kV.





# WORLD'S FIRST ATEX HIGH SPEED DOOR



**WIND-LOAD  
RESISTANT**



**SUPERIOR  
SEALING**



**ULTRA  
SAFE**




**ENERGY  
SAVING**

**3RD PARTY  
CERTIFIED**



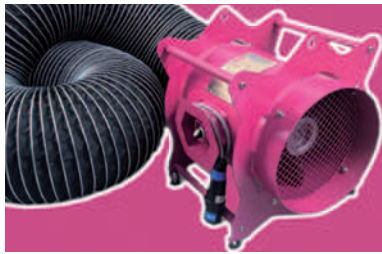
**CRASH  
FORGIVING**



Manufactured by Dynaco 



**THORNE &  
DERRICK  
INTERNATIONAL**



**THE WORLD'S FIRST ATEX & IECEx CERTIFIED  
PORTABLE VENTILATION FAN**



**WOODCOCK  
& WILSON**

# hazardex

The original and only global information site for the hazardous area safety community.

With its own dedicated app, publication and events.

## Hazardous Area Training Specialists



tel 01642 438 700



tel 01469 552 853



## THE EXPLOSIVE ATMOSPHERE EXPERTS

### TRUST OUR EXPERTISE

All T&D Sales Engineers hold CompEx Certificates (Hazardous Awareness Course EX F) and undertake advanced and ongoing Explosion Protection training with suppliers – we can be safely trusted to specify and supply explosion-proof equipment compliant with international hazardous area classifications.

We have vast experience supplying UK and global oil, gas and petrochemical industries – our Export Team can handle all your export documentation requirements.



## UK & Export Sales Office

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