ExLoc
INSTRUMENTS

HAZARDOUS AREA PRODUCTS & SOLUTIONS

Intrinsically Safe Interfacing

Hazardous Area Visualisation & Notification

Hazardous Area Mobility & Communications

CONTENTS:

Exloc
INSTRUMENTS

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Exloc Instruments UK Ltd was formed in 2012 to bring to the UK the success that Exloc Instruments Inc have been enjoying in North America for 20 years.

Our staff have many years experience in working in the process industry and in the fields of hazardous area protection, especially Intrinsic safety. We are based in the North of England and serve all the UK and the Republic of Ireland.

We are the sole UK agents for the GM International range of Intrinsically Safe Interfaces and SIL relays, Smart-Ex (formerly iSiS-Ex) range of PC Terminals, workstations and monitors and Primation GMBH for their range of ATEX ethernet solutions. We have a strong and growing range of mobile computing solutions having recently become BCom Solutions exclusive UK distributor for their Zone 1 Smartphones. We have also partnered with Aegex who have brought to the market the first Zone 1 Windows 10 tablet computer. We stock CorDEX digital cameras, and portable lighting and flashlights as well as working closely on a global basis with Extronics, Beka Associates & e2S Warning Signals..

USA

The corporate head office of Exloc Instruments Inc is located in Culpeper, Virginia with a branch office and warehouse in Houston, Texas, providing direct support for clients in the U.S. Gulf Coast Region. This area includes many global entities with engineering and procurement offices located in this strategic oil and gas industry centre.

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SINGAPORE

2015 saw the opening of a new Exloc Instruments office in Singapore to grow and develop business within the SE Asia market

AXA Tower,
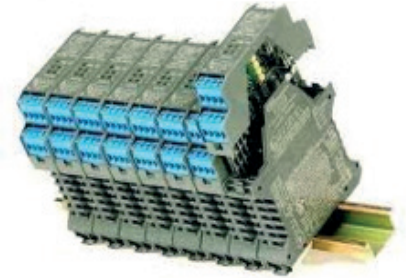8 Shelton Way,
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D1000 Series - Din Rail isolators

- High Packing Density
- Ultra slim 4 channels 22.5 mm wide DIN rail mounting modules.
- High Signal transfer accuracy and repeatability.
- Low power consumption.
- SMD manufacturing to maximize long, reliable life.
- DIP switch configuration for easy field set up. (Universal feature of all "D" series modules)
- LED indication for power, signal status and line fault conditions
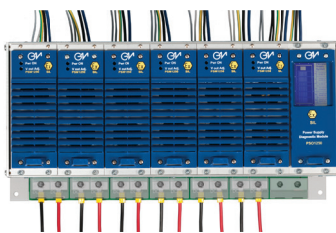- Wide operating temperature range.

D5000 Series - Din Rail Isolators

- Compatible with a wide range of measurement and process control applications.
- SIL 3 Safety relay contacts rated 4 A / 10 A for direct switching of loads.
- Three-port galvanic isolation to eliminate noise, ground loop problems.
- Intrinsic safety without need for high integrity ground.
- Line fault detection for open or short-circuit wiring.
- Absence of electrolytic capacitors—minimum 20 years lifetime.
- Wide operating temperature range: -40 to +60/+70 °C
- Installation in Zone 2

D6000 Series - High Performance Signal Conditioners

- High signal transfer accuracy and repeatability.
- SMD manufacturing for a long, reliable life.
- Wide range of digital and analogue I/O.
- Three port galvanic isolation to eliminate noise, ground loop problems.
- Line fault alarm detects open or short circuit of field cables.
- Optional power bus DIN-Rail connector.
- Modules suitable for applications up to SIL 3 level according to IEC 61508, IEC 61511.
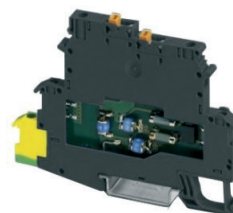- Independent power supply circuit for each channel.

PSx1200 - Power Supplies

High availability,
SIL certified, Enhanced Power supply Units and Systems.
Wall, rack or DIN-Rail mounting.
Fully redundant options available.
Installation in Zone 2 hazardous locations.
ATEX and IECEx certified

D9000 - Surge Protection for process signals

- Surge Protection in the field
- IEC test classification/EN type: C1 / C2 / C3 / D1
- Max Cont. Operating voltage Uc: 30V DC, 21 VAC
- Protection of signal types: 4-20 mA HART, Digital I/O, World FIP, F&G
- Explosion-proof Certification: Exia IIC T4…T6

Smart-Ex - Zone 1 PCs & Workstations

- Glove friendly optional touch screen (800 & 900 series)
- Integrated keyboard/mouse and/or external keyboard
- High bright and transflective screen options (800 & 900)
- Simple to install
- Will run with any PC operating system (450 CE only)
- Configurable with fibre optic, Cat5, and/or WiFi

Smart-Ex - Zone 2 PCs
Features include:

- Glove-friendly Projective Capacitive Touchscreen (PCT) with multi-touch
- 19" 1000 NIT display
- Wide -40°C to +60° operating temperature range as standard
- Thin: 3.5" profile. Lightweight: 26.9lbs
- Shock and vibration tested in accordance with BS EN60068 standards
- Windows 7 Professional or Windows Embedded 7 (WES7) operating system
- Designed for field maintainability

Indicators and Displays

- 4/20mA loop-powered indicators
- Rate totalizers
- Serial text and Fieldbus displays
- Batch controllers
- Manual setpoint stations
- Field and panel mounting models
- Rugged stainless steel case option

Handheld Barcode Scanners

- Intrinsically safe
- Bluetooth cordless versions
- Ergonomic deigns

iRFID500 - Handheld RFID reader

- Bluetooth UHF RFID passive tag reader
- For use in Zone 1, 2, 21, 22
- Link directly with smart mobile devices such as smartphones and tablets using Bluetooth capability

P-Ex OTR opis Transceivers & Media Converters

- Transparent interface between general purpose areas and hazardous locations
- Make general purpose optical signals opis compliant
- Can be installed in ATEX Zone 2 using a lightweight housing
- Redundant 10-30VDC power supply connections
- External 90-250VAC power supply available
- Operating temperature -40 to +176°F / -40 to +80°C
- Optical connector types SC, ST, and LC (model dependent)
- Connect easily to additional devices for system expansion
- Convert from copper to fiber optic

Ethernet Switches and Media Converters

- Aluminum houses for zone 1, zone 21
- Stainless steel housing for mining area M2
- Operating temperatures of -40°C to +80°C
- No additional housing or power supply required

iWAP107 - ATEX WAP Enclosure System

- ATEX/IECEX Zone 1 and C1D1 certification
- Use general purpose industry leading APs
- Compatible with many major radio manufacturers Cisco, Aruba, Meru, Firetide, Motorola, etc.
- High gain dual band intrinsically safe antenna outputs
- Integrated bulkhead mounted RF connectors
- -40°C to +60°C temperature range
- Copper, fiber optic and PoE options
- Integrated surge protection option
- Zone 2 iWAP200 enclosure solution available

iSolate501 - Intrinsically Safe Ultra-Wide Band RF Galvanic Isolator

The iSOLATE501 is an ATEX and IECEx approved RF galvanic isolator for use in Zones 0, 1, 2/22 and mining applications. It is the next generation of Extronics ground breaking technology

iSOLATE-CT - Explosion Proof Connector Transit

The iSOLATE-CT is designed for use with the iSOLATE501 range of galvanic RF isolators to enable quick & simple wireless deployments in hazardous areas.

When fitted to an explosion proof enclosure containing the Extronics iSOLATE501, the RF ports of standard wireless radio device are protected by the intrinsic safety concept, facilitating their use in Zone 1 environments.

Aegex10 - Zone 1 Windows tablet.

Aegex Technologies offers customisable, Windows-based mobile solutions for all personnel in multiple zones of hazardous locations. The intrinsically safe devices are globally certified for industrial use in explosive atmospheres, bringing the power of IoT and cloud connectivity to hazardous industries.

- Future-proof Windows 10 operating system
- Hazardous location enabled ATEX IECEx Z1 & UL Class 1 Div 1
- IP65
- IS 8 megapixel colour camera
- Purpose-built design - vibration. shock and drop-proof
- WiFi, Bluetooth, GPS communications
- Uniform platform and Intel architecture

X.TAB 1.0 - Zone 2/22 Android tablet

- AndroidTM 4.1.2 Platform
- Lone Worker Protection and Push to Talk (server based) are optional
- Near Field Communication
- Bright 7″ HVGA display
- Capacitive touchscreen
- 8MP autofocus camera
- Wi-Fi IEEE 802.11 b/g/n
- MicroSD-card slot up to 32 GB
- Long battery life time (7000 mAh)

ATEX Zone 2/22, II 3G Ex ic IIC T4 Gc IP54, II 3G Ex ic IIIB T135°C Dc IP54

BCom Rough Pro - Zone 1/21 Smartphone

Work smarter in harsh environments. Our ATEX certified smartphone is a game changer in the world of hazardous areas. Modern day specifications combined with a rugged and waterproof housing unleash previously impossible solutions to harsh working environments.

Display: 4.5 Inch (LCD) high impact resistant WVGA 1280x720 with high brightness capacity
Certifications: ATEX, IECEx, IP68, MIL-STD-810G

Operating temperature: -20°C to +55°C
Operating System: Android 4.2 Jelly Bean
Connectivity: Dual-SIM, Quad band 3G, WiFi, Bluetooth 4.0, USB
Camera: 8 Megapixel back/ 2 Megapixel camera front

Quad core 1.5 GHz Processor
Storage Memory: 3 Gigabyte + micro SD Card (32GB) included

Ingress Protection: IP68 Waterproof 40 min. submersed in 1.2 meters water

Lightweight - only 209 grams

Innovation 2 - Zone 1/21 Smartphone

- Android 4.2.1 Platform
- Lone Worker Protection
- Push to Talk
- Near Field Communication
- Dual SIM
- Bright 3.2 HVGA display

- Capacitive touchscreen
- Dust- and waterproof (IP68)
- 5MP autofocus camera with LED-Flash
- GPRS, EDGE, UMTS, HSPA+, Bluetooth, Wi-Fi
- Long battery life time, exchangeable battery
- PTT (server based)

![Exloc Instruments logo]

iCAM501 & iCAM502

- Intrinsically safe, FM approved, ATEX & IECEx certified
- Simple "point & shoot" operation
- Optical viewfinder
- 3.1 Megapixels
- 1 GB flash memory, 5000 photos
- Image stabilization
- Super bright 131 lux.sec. four-LED flash
- Voice recording in .wav format
- Included silicon rubber sleeve for extra grip
- Powered by AA alkaline batteries
- High performance auto-focus lens for even sharper images
- Focusing as close as 2 inches / 5cm enables capture of tags, data plates, and fine details

ToughPIX II Trident Edition

ATEX / IECEx Certificate Type:
Ex d IIB+H2 T6 Gb / II2G Gb T6
Ambient temperature:
Ex d IIB+H2 T6 Gb / II2G Gb T6
General Information
Image download:
High Speed USB (safe area only)
& Toshiba FlashAir Wireless
Image storage: 16GB
Standard image capture resolution:
16 Megapixel
Zoom: 5 x optical, 4 x digital zoom
Screen size: 2.7 inches
Additional features: Anti shake,
auto focus, macro, face recognition
Tripod mount: ¼ inch 20 TPI

TC7000 - Thermal Imaging (IR) camera

- ATEX/IECEx Certified for Zone 1, 2, 21, 22 & M2 explosive areas
- No waiting for hot work permits with intrinsically safe design
- Built-in RFID tag reader for use with the CorDEX Intelligent IR Windows
- Find the smallest defects with the high resolution 320 x 240 IR detector
- Measurement Range -4°F to 1112°F (-20°C to +600°C) Accuracy ± 2°C or 2% of reading
- Image Frequency 9Hz

CorDEX - Smart Infra Red Windows

Infrared Windows are used to perform fast and safe infrared surveys of electrical equipment across all industry sectors.

With its spring loaded cover the IW series can be installed in any orientation to make way for many of the obstructions typically found in low voltage panel boards and motor control centres

Genesis - Worklights & lanterns

- Handportable LED Lantern
- Lightweight and rugged
- IP54 Industrial Protection
- Five super-bright LEDs
- Powered by interchangeable EXIS™ battery
- Zone 1 Hot Swappable technology
- Intrinsically Safe

GENESIS Flashlights

- Incorporating Super bright, white light LEDs
- Materials: Manufactured from the highest quality aircraft aluminium
- Power: Powered by off the shelf standard batteries (AA / AAA)
- Industrial Rating: IP54
- LED: Powered by Super Bright LEDs
- Certification: ATEX and IECEx certified

Hazardous Area Audible & Visual Alarms

- Intrinsically safe Sounders, beacons and combination units
- Explosion proof sounders. beacons and combination units
- large variety of colours available for lens
- Suitable I.S. Interfaces for Intrinsically safe devices

741 - ATEX Signal Tower

A cost effective solution that doesn't rely on additional external safety barriers and can be purchased with 2 or 3 beacons in the tower, making it scaleable.

- Service life: max. 100.000 h
- Protection rating: IP65
- Type of protection: II2G Ex e mb [ib] IIC T6 Gb

PL LED Pilot lights

The 'PL' LED pilot light has an estimated life of 100,000 hours and is available in Red, Green, Amber and Blue 240VAC,110VAC and 24VAC/DC with the standard thread type of M25 x 1.5.

- Certified to ATEX and IECEx:
- Ex d mb IIC Gb
- Ex tb IIIC Db

BA390 - LED Clusters

- Intrinsically safe to ATEX, IECEx
- Available in five bright colors
- Reliable LED illumination
- 10+ year continuous life expectancy
- Low 20mA current consumption
- IP65 environmental rating
- Ask us about suitable I.S. Interfaces

iTB - a cost effective line of hinged cover enclosures

- Sizes up to 2000 x 1200 x 800 mm
- 316L & 304 stainless steel, painted MS optional
- Brushed finish is standard, more options
- Corrosion resistant for 25 years minimum
- Silicone gasket is standard
- Entry configuration to suit user needs
- Impact resistance 7 N/m
- IP66 ingress protection
- ATEX certified as component & apparatus
- Bolt-down Cover Enclosures to meet the above specifications in Sizes up to 600 x 600 x 300 mm

iSTB - Small Bolt-Down Cover Enclosures

Sizes up to 600 x 600 x 300 mm
316L & 304 stainless steel, painted MS optional
Brushed finish is standard, more options
Corrosion resistant for 25 years minimum
Silicone gasket is standard
Entry configuration to suit user needs
Impact resistance 7 N/m
IP66 ingress protection
Alternate mounting options
DIN rail support included
Alternative sheet metal gauges available on request
ATEX certified as component & apparatus

ENC-001 - Isolator Enclosure

Our standard unit is a GRP isolator enclosure with clear lid. Fitted with
Din Rail and with M20 knockouts. We are happy to quote for options of
larger and smaller versions of these enclosures and to provide quotes
for systems fitted with modules and glands etc. For further information please contact us.

Functional Safety Engineer (TUV Rheinland) SIS Training

Exloc Instruments (UK) Ltd are pleased to provide Functional Safety Engineer (TÜV Rheinland) vocational Training for Safety Instrumented System Professionals, presented by Worldwide renowned Functional Safety Expert, Tino Vande Capelle.

Course objectives

The main objective is to provide all engineers involved in safety instrumented systems with elementary and necessary knowledge about functional safety, based on the leading international functional safety standards IEC 61508 and IEC 61511. A second objective is to give anybody attending the course the opportunity to have his or her functional safety competency confirmed by the TÜV Rheinland upon successfully passing the exam.

Why should you attend

IEC 61508 ed. 2.0, released in April 2010, clearly indicates as a 'Normative' requirement that anybody involved in safety lifecycle activities shall be competent to carry out the activities for which they are accountable. Take advantage of this course, examination and certificate to prove your clients, peers and management, your competency in the field of Functional Safety.
Success in the final examination confirms your functional safety knowledge on your personal name, adding a great value to your professional figure.

Course Provider

Courses are held by Tino Vande Capelle.
Tino is providing 'INDEPENDENT' Functional Safety (FS) Consultancy as freelance & self-employed, capitalising +28 years process safety sector experience. In August 2005, Tino has become a Senior FS Expert & Trainer for Safety Instrumented Systems (SIS).
His FS Expert ID is 109/05 and can be found on the TÜV Rheinland website (www.tuvasi.com)

Success in the final examination certifies your functional safety knowledge, adding great value to your professional career. Please contact us for further details of Course locations and costs.