Safe, reliable solutions for optimising productivity
A leader in reliability, efficiency and safety

MTL is recognised as a world leader in the development and supply of solutions for harsh, hazardous and industrial environments. Distinguished by its network of offices and manufacturing sites around the world, MTL engineers and professionals are accessible wherever you are, providing experience and expertise to help solve your challenges. As part of Eaton’s Crouse-Hinds business, MTL can provide all the solutions necessary for the safety and success of your business.

Unmatched breadth and depth of products

MTL solutions for the pharmaceutical and biotechnology industries include a comprehensive range of reliable products, services and training. Designed to optimise on productivity, reduce plant costs and increase safety, our rugged, durable product ranges are also suitable for those hazardous and industrial areas typically found in your industry. Our knowledge and expertise offers comfort to you, with many of the world’s safety critical processes monitored, controlled, visualised or protected by MTL products.
Comprehensive product solutions for global pharmaceutical and biotechnology applications

We deliver:

- **Visualisation solutions** that will offer flexible, remote visualisation and control to enhance efficiency and productivity within your process.

- **Intrinsic Safety & HART® Interface solutions** that ensures a safe, reliable process whilst maximising plant productivity and performance within hazardous areas.

- **Fieldbus Network solutions** that minimise risk and maximise plant performance by offering high reliability and safe operation of your fieldbus networks.

- **Industrial Networking solutions** that delivers safe, reliable and secure operation across your Ethernet communication networks in harsh and hazardous environments.

- **Surge Protection solutions** that enhance reliability and increase availability of your plant by protecting your assets from the damaging effects of lightning and other transient surges.

- **Process Alarm Management solutions** that increase plant availability and safety of employees through reliable, visible and scalable alarm systems.

Controlling, operating and protecting assets in harsh and hazardous areas
A new generation, built on experience

Introducing a new and unique modular design concept - the GECMA RT - a new generation of remote operating terminal.

The GECMA RT has been designed packed full of features and state of the art technology.

With the Pharmaceutical industry in mind, the new GECMA RT is suitable for the strictest of hygienic conditions and aggressive production environments, its slim, flexible modular construction also includes individually certified modules to allow safe maintenance even in hazardous areas.

Unique and innovative platform concept, modular design saving time and cost during installation, commissioning and operation.

Lightweight, slimline design for optimization of space and application.

Fibre optic or copper data transmission for cost effective, reliable and increased volume of data transfer.

Unique Intrinsically Safe and Alarm visualisation ensuring safe, continuous operation in the hazardous area.

Single line data transmission for simple, cost effective installation and reliable transmission.

DVI & USB interfaces /transparent USB for quick and flexible connectivity.

Reducing your plant costs
Optimising your productivity
Increasing your plant safety

For further information about the new GECMA RT, please contact your local sales office or visit www.gecma.com

Explorer (PC)

Designed as a Panel PC, the Explorer is a client specific modular system and is ideal for local display or operation of software for client server applications such as web terminals or for control of PLC’s.

Explorer operates in ambient temperatures ranging from -20°C up to +40/50° depending on ambient parameters e.g. airflow, type of enclosure etc. A wide range of special enclosures and housing options are available.

Explorer Panel PC’s are also available as non Ex products for industrial applications up to a screen size of 18”.
HART® Multiplexers
When it comes to HART® Multiplexers, MTL offers the most cost effective, reliable and flexible solutions for every application and industry. The MTL4840 HART® connection system is the system of choice for unrivalled flexibility, while the MTL4850 SIL3 multiplexer offers a simple interface between smart devices in the field and instrument management software. MTL also offers a range of customized HART® interface solutions to suit specific applications and systems.

Intrinsic Safety Interfaces
For over thirty years MTL has been the world leader in intrinsic safety (IS) interfaces for hazardous areas, producing barriers, isolators and integrated IS to help prevent explosions in process industries. The products range from industry renowned (IS) barriers and isolators through to sophisticated process control products, all designed for the harsh environments often encountered in the process industry.

IS Indicators
MTL’s range of IS displays delivers localised visualisation for critical process information. The MTL646/7 text displays are located in the hazardous area where they display alphanumeric data and graphics from a safe area host controller. The MTL660 loop-powered series offers clear visibility with its large LCD display and with the low voltage drop across their input terminals can be installed in almost any 2-wire, 4-20mA loop.

Process Alarm Equipment
MTL supplies RTK alarm systems and associated instrumentation from a single sounder to a complete plant-wide alarm and monitoring system. Products such as the 725B Combined Annunciator and Event Recorder are the most innovative in the market today - anywhere in the world, while the LN1000 Intrinsically Safe Alarm Annunciator is a totally unique product, helping to keep operators and the environment safe and process plants running smoothly.

Hazardous Area Notification Products
Operators working within a hazardous area need to be quickly and clearly informed of any potential hazard. Our range of notification products serves this purpose perfectly. The range includes Sounders, Beacons, LED Clusters and Alarm Displays, all certified for use in potentially hazardous areas.

Industrial Security
The Tofino™ Industrial Security System is a unique solution that addresses the important issue of protecting Industrial Networks from modern cyber security attacks. By deploying Tofino™ security appliances directly in front of your control device/s you eliminate the impact that these malicious and non-malicious attacks have on your critical infrastructure and manufacturing processes.

Industrial Wireless
In today’s process industries there are increasing demands for greater efficiency, higher reliability and lower cost of ownership of field equipment and supporting networks. MTL offers full end to end or part solutions to meet the requirements of your project. From plant-wide 802.11 network infrastructure in hazardous areas to simple sensor signal cable replacement, MTL brings the experience and the products to realise robust and secure wireless systems.
**Power Surge Protection**

The MA15 Series of surge protection devices protects electronic equipment and computer networks against the effects of 'noise pollution' induced in mains power supplies. MA15 units ‘clean up’ the effects of industrial noise and surges caused by lightning, switching devices, thyristor controls, transmission system overloads and power-factor correction circuits.

**Data and Signal Surge Protection**

The SD Series is a proven range of surge protection devices combining unparalleled packing densities and application versatility for process equipment and communication networks. The SD Modular (SDM) version adds a replaceable element which permits change or upgrade of the module without disconnecting the loop.

**Field Instrument Surge Protection**

The TP Series of surge protection devices uniquely provide a level of protection for 2, 3 and 4 wire field-mounted transmitters that is far in excess of the optional transient protection facilities available from the transmitter manufacturers - without involving any additional wiring, conduit modifications or other expensive extras.

**Communication Surge Protection**

ZoneBarrier series is a modular, telecom protection device that provides a uniquely customer configurable port-by-port protection approach. The building block concept allows ease of expansion and offers a range of mounting options. The ZoneBarrier modules are available for a variety of network and communication applications.

**Process Junction Boxes**

MTL Process Junction Boxes are suitable for safe and hazardous area installations for mounting fieldbus wiring components. They offer plenty of space for termination and wiring, making it easy to install and maintain the fieldbus system. A complete range of stainless steel and GRP enclosures are available, all of which are pre-drilled for glanding and supplied with glands, earthing studs and breather plugs as required. Detailed specifications can be met to help minimise your engineering and project management burden.

**Redundant Fieldbus Power Supplies**

MTL fieldbus power supplies are designed to provide redundant power for up to eight FOUNDATION™ fieldbus H1 segments, optimizing on cabinet layout and achieving maximum number of fieldbus segments. The 918x system is for use in general purpose and hazardous area High Energy Trunk architectures and features a unique N+1 redundancy delivering you flexibility, cost savings and high availability.

**FISCO Power Supplies**

MTL FISCO power supplies repeat the fieldbus signal from a host control system to intrinsically safe fieldbus devices in a Zone 1 or Division 1 hazardous area. Complying with the IEC 60079-27 FISCO Technical Specification, they are capable of providing high levels of current in the hazardous area, while maintaining the benefits of a true intrinsically safe circuit throughout the field network. With a redundant option this solution provides a unique combination of high system availability and operator safety.

**Single-Segment Fieldbus Power Supplies**

The F101, F102 and F104 fieldbus power supplies each provide power for a single FOUNDATION™ fieldbus H1 segment. Galvanic isolation, power conditioning and segment termination are incorporated. With a range of output voltages and currents supported, the modules can be used in a variety of fieldbus environments where energy efficiency and live-workability is important. The F10x Series modules are ideal for installations requiring single segment, non-redundant power in small to medium scale applications such as batch processing.
A partner poised to meet your pharmaceutical and biotechnology needs