



A new generation,  
built on experience.  
Remote operating  
stations for  
Ex zone 1/2/21/22

**EATON**

*Powering Business Worldwide*

Introducing a new and unique modular design concept - the **MTL GECMA Work Station** - a new generation of remote operating terminals.

New



# What's critical to you, is critical to us.

The **MTL GECMA Work Station** range has been designed to address the environmental challenges of obtaining visualisation within harsh and hazardous areas. Building upon decades of experience and expertise and the significantly large installed base of its predecessor, the MTL GECMA Work Station is packed full of features and state-of-the-art technology. The range includes Remote Terminal (RT), Thin Client (TC) and Personal Computer (PC) to meet a wide variety of applications. 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.

## Our unique modular design concept - key features



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

**Lightweight, slimline design** for optimisation 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. (\*RT only)

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

**Dual Ethernet ports** for redundant data connectivity, increasing process uptime. (TC/PC only)

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

Reducing your plant costs  
Optimising your productivity  
Increasing your plant safety



# Remote Terminal (RT)

Eaton's **MTL GECMA RT** hazardous area work station is a Keyboard, Video and Mouse (KVM) extension of either a Personal Computer or Thin Client located in the safe area.

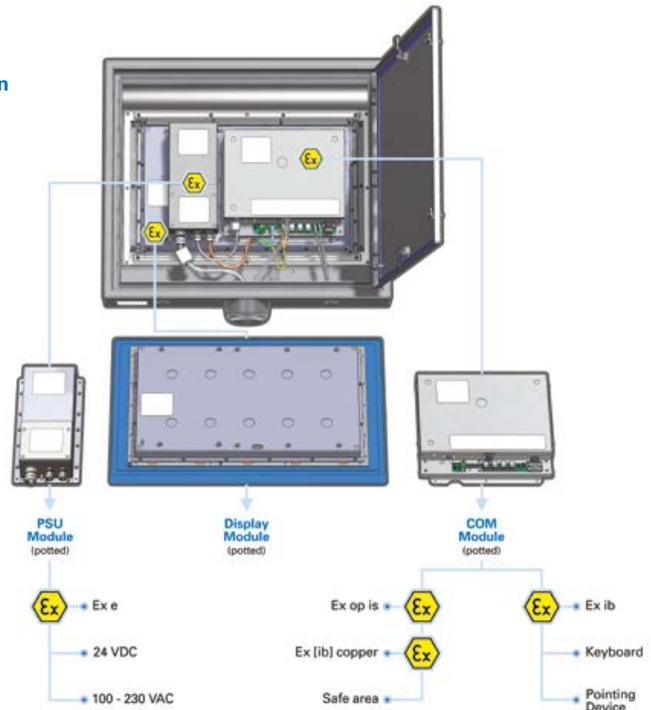
The MTL GECMA RT provides a user-friendly, near real-time 'plug and play' solution that enables a safe area PC or Thin Client to be remotely controlled from the hazardous area, via a single, point-to-point connection.

The MTL GECMA RT comprises of individually Ex certified, modular components from the MTL GECMA Work Station range, such as power supply, displays, keyboard, pointing device and mechanical hardware. The simple addition of a RT communication (COM) module is then added to deliver a Remote Terminal solution.

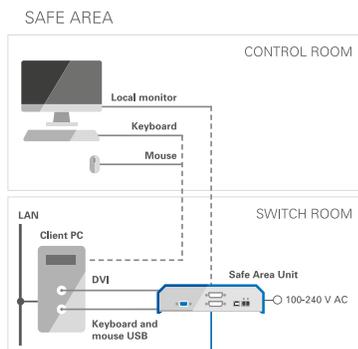
The RT COM module receives data from a PC in the safe area via an Ex certified data link, which is available as a copper or fibre (Multi Mode or Single Mode) connection for a reliable transfer of data across longer distances if required.

A Safe Area Unit (SAU) is required to combine and transfer intrinsically safe data through cables to the Remote Terminal in the hazardous area. Two versions of the SAU are available, a desktop version to access a single terminal or a rack mounted version to allow up to four terminals to be connected.

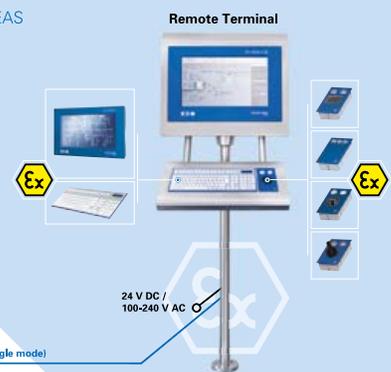
RT connection



MTL GECMA RT operating principle



EX ZONE 1/2/21/22 HAZARDOUS AREAS



Copper cable, 100m  
Fibre optic data cable, up to 550m (multi mode), up to 10,000m (single mode)  
Intrinsically Safe data transmission

# Thin Client (TC)

Eaton's **MTL GECMA TC** work station is designed for virtualisation applications in hazardous areas, providing a powerful and reliable 'client' solution for integration into a Distributed Control System.

The Thin Client (TC) incorporates a Quad Core 2GHz CPU, 4GB RAM and numerous Ex i and Ex e connections and is supplied with a standard 'Windows-based' open operating system and remote-access software. A dual Ethernet port provides redundancy on the network connection, increasing availability of the client on the network.

The MTL GECMA TC comprises of individually Ex certified, modular components from the MTL GECMA Work Station range, such as power supply, displays, keyboard, pointing device and mechanical hardware.

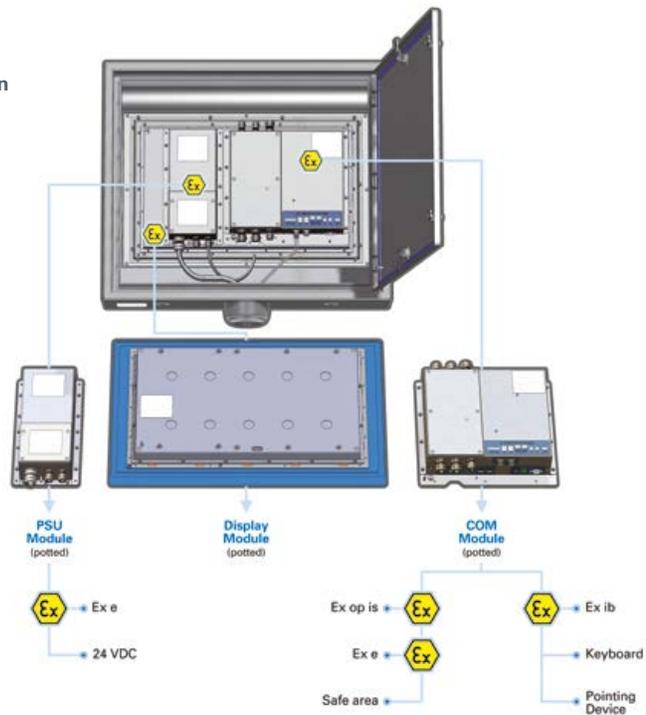
The simple addition of a TC communication (COM) module is then added to deliver a Thin Client solution.

The TC COM module is available as a copper or fibre (Multi Mode or Single Mode) connection for a reliable transfer of data across longer distances if required.

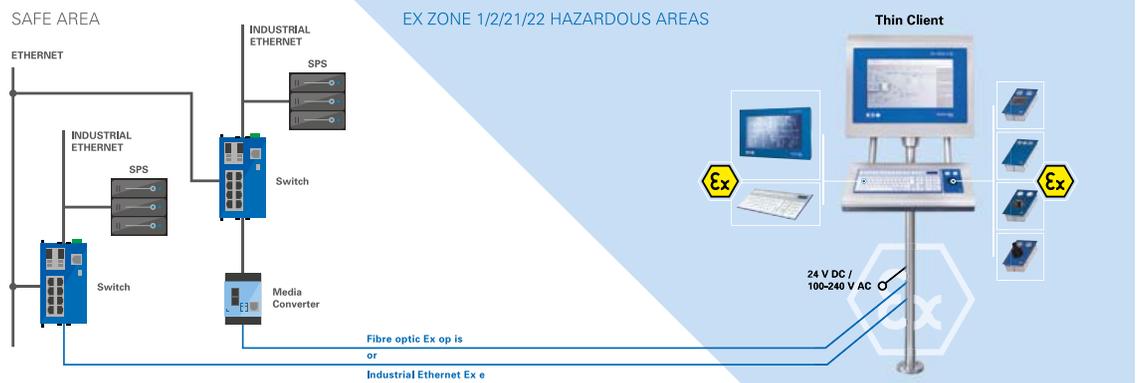
With the fibre connection rated Ex op is (optically intrinsically safe) an equivalent Ex op is connection is required in the safe area.



TC connection



MTL GECMA TC operating principle



# Personal Computer (PC)

Eaton's **MTL GECMA PC** work station provides a powerful stand-alone solution for applications such as packing machines and is specified for use in hazardous areas.

The MTL GECMA PC is a powerful personal computer offering flexibility on software and incorporating a Quad Core 2GHz CPU with up to 8GB RAM and up to 256GB SSD. Numerous Ex i and Ex e connections are available, allowing easy integration of locally connected devices into the system such as barcode scanners, card readers or scales. A dual Ethernet port provides redundancy on the network connection increasing availability of the client on the network.

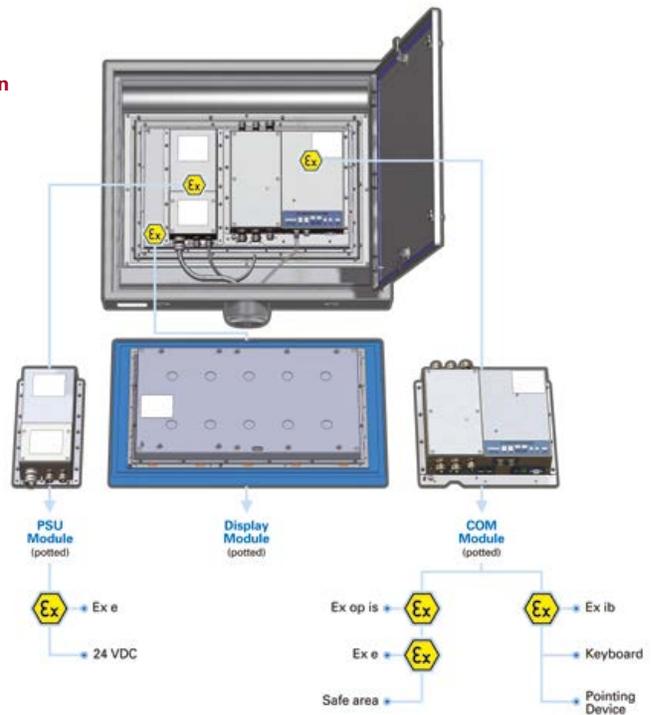
The MTL GECMA PC comprises of individually Ex certified, modular components from the MTL GECMA Work Station range, such as

power supply, displays, keyboard, pointing device and mechanical hardware. The simple addition of a PC communication (COM) module is then added to deliver a Personal Computer solution.

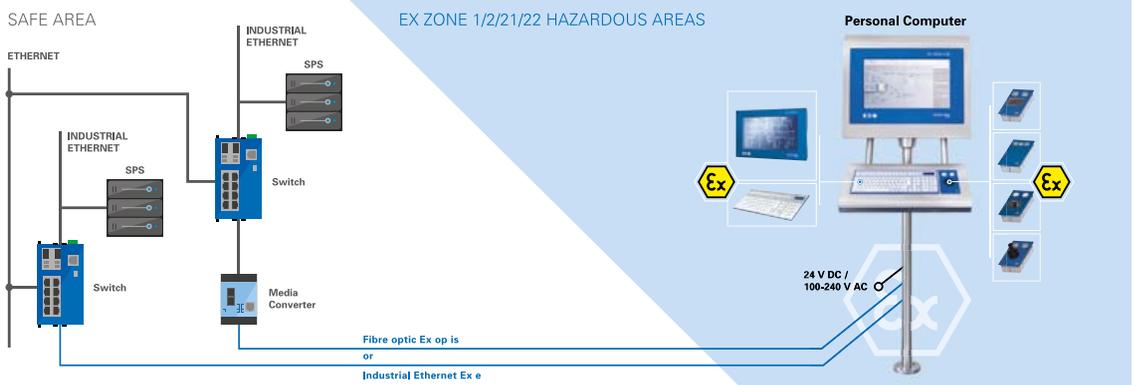
The PC COM module is available as a copper or fibre (Multi Mode or Single Mode) connection for a reliable transfer of data across longer distances if required.

With the fibre connection rated Ex op is (optically intrinsically safe) an equivalent Ex op is connection is required in the safe area.

## PC connection



## MTL GECMA PC operating principle





## Industries

Our customers are usually found in offshore, petrochemical, chemical, bio, pharmaceutical and life science industries, but applications for monitoring and controlling your process in the hazardous area is not limited to these industries. Therefore we offer a wide range of mechanical solutions to provide a safe, convenient and easy monitoring and control of processes in any hazardous area application.



For further information about the new **MTL GECMA WS** range please contact your local sales office or visit [www.gecma.com](http://www.gecma.com)

The innovative modular design of our MTL GECMA Work Station range allows you to choose and customise requirements to meet your application needs.

Visit our HMI online configurator tool at [www.gecma.com/configurator](http://www.gecma.com/configurator) to start building yours today!



EATON Crouse-Hinds series

# The safety you rely on.

See the complete MTL HMI & visualisation product portfolio at [www.gecma.com](http://www.gecma.com)

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