Visualization solutions for harsh and hazardous areas
The safety you rely on

Delivering world-class reliability and safety in high consequence harsh and hazardous environments
MTL Azonix is a part of Eaton’s Crouse-Hinds business and remains a brand that stands for safety in the harshest of environments. Whilst we began with the MTL100 series zener barrier, MTL Azonix alongside Crouse-Hinds, has grown into the premier name for a comprehensive portfolio of solutions for high-consequence harsh and hazardous environments.

As we continue to evolve, so does our brand. Our products are now united with Eaton’s leading range of reliable, efficient and safe electrical power management solutions. MTL Azonix has a new look alongside Crouse-Hinds by Eaton, but the products and technology you trust remain unchanged.

More protection. More technology. Expect more.

Only Eaton’s Crouse-Hinds Business can deliver...

- Protection and safety of people and assets around the world with unsurpassed reliability and quality in every product we offer
- Industry leading innovation and product efficiency
- Product solutions designed and certified for global specifications
- Best-in-class, global sales, and customer service teams that provide local support
- Over forty years of industry knowledge and expertise
MTL Azonix has been supplying ruggedized computers and data acquisition systems since 1993 to the oil and gas industry. With over 10,000 systems sold ranging from human machine interface (HMI) displays, data acquisition systems, wireless communication and I/O devices for hazardous environments, MTL Azonix has a strong technical understanding for the demands of outdoor and hazardous area environments. This experience guides us as we develop new and innovative products converging computer technology with application know-how to meet a wide range of customer requirements.

MTL Azonix offers the broadest range of hazardous area HMI products giving you the option of choosing the best solution to meet your technical requirements and business needs. At MTL Azonix, we understand that it is not just about the product but the overall cost of ownership experience. Manufactured in a world class manufacturing facility focusing on quality and on-time delivery and supported by a strong service center focused on customer satisfaction, our products give the best return on investment and help your business grow. We strive to lead the industry with our product innovation and cost effective solutions.

Our Product Value Proposition

- Totally sealed computers and displays that eliminate failures from contamination.
- Lower power designs, ensuring longer product life.
- Rugged electronic package that function over a wide range of temperatures, shocks, vibrations and EMI.
- Intrinsically Safe electrical design enabling small, light weight ease of connectivity HMIs, data acquisition and I/O devices.
- Certification to hazardous area standards by approved agencies.
- Full product support throughout the life of the product.
- Patented IS Ethernet and wireless communications.

Applications for MTL AZONIX Systems

- Directional drilling
- Gas compression stations
- Measurement and logging while drilling (MWD/LWD)
- Casing tools
- Mudlogging
- Blow out preventers
- Coil tubing
- Pressure managed drilling
- Well stimulation
- Geo balance drilling
- Production platforms

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In order to mitigate the primary cause of all system failures, heat, MTL Azonix engineers specify high efficiency power supplies, low power LED backlit LCD’s and low power CPU’s. These highly reliable designs are then modeled in thermal management software to ensure the heat dissipation meets all environmental criteria. Our engineers work closely with our customers ensuring all critical requirements are achieved per demand of the rig floor environment.

Our design review process ensures that the materials, tolerances and manufacturing practices will produce the highest reliability in our products as intrinsic safety and ruggedizations is our core competency. This is also validated during our prototype build and test phase. In addition, reliability predictions are made in accordance with MIL-HDBK-217. With a design focus for obsolescence management, our products typically have a field life of eight to ten years. The design teams’ focus on low MTBF is critical in the design process. Our product development process includes several levels of reviews where peers scrutinize each other’s work and cross-functional teams evaluate the development process in all areas including design margin. Finally, in addition to in-house testing, we utilize certified third-party labs to validate that the components and assembled units are reliable.

**Design Capabilities**

- Integrated computer and display systems
- Intrinsically safe design
- LCD display design and optics technology
- Extreme ambient temperature design
- Embedded system design
- High speed barrier design
- Electronics packaging
- Thermal management
- FEA analysis
- Wireless communications
- Hazardous Area & MIL certification
- Solid Works / Pro E CAD capabilities
- MTBF Analysis - Mean Time Between Failure
- DFMEA Analysis - Design Failure Mode Effect Ana
- Thermal Analysis for superior thermal management

**Process Capabilities**

- Lean Manufacturing
- ISO 9001 and AS 9100 certified
- Program Management
- Configuration Management
- Risk Management
- RoHS Compliance
- Hazardous Area Certification
Operational Excellence
Op-Ex principles are our foundation and our core building blocks in everything we do. Lean Manufacturing principles are used in the entire life cycle of the product from design to order entry to production, shipping and after sales service. We utilize kaizen events as our core methodology for continuous improvements. These events are focused improvement projects with cross functional teams dedicated to developing and implementing a solution to a defined problem in 5 days or less.

Visual Metrics
We utilize Key Performance Indicators (KPIs) to monitor the overall business on a daily basis. We also have KPIs for every key function from design to order entry to a production cell to kanban systems. These metrics are posted prominently and reviewed on a daily basis as an integral part of our PDCA (Plan Do Check Act) based real time quality assessment system. Any deviations from the target are analyzed via Pareto charts and problem solving tools are deployed to drive corrective action and improvement.

Dedicated Production Cells
The production cell is at the core of our Lean Manufacturing System. All materials, information and tools are available at the point of use and dedicated supply chain and engineering resources are assigned to cells to ensure maximum cell uptime.

Quality Management System
MTL Azonix is certified to ISO 9001:2008 and has been certified to ISO 9000 since 1996. We are also certified to AS 9100 at all our locations.

Supplier Quality
As part of our QA system, we have an extensive Supply Chain Management System. Our approach covers:
- Selection of new suppliers
- Supplier scorecards and rating
- Non conforming material review
- Monitoring of OTD and quality levels of existing suppliers.
- First Article Inspection for new suppliers / new part / modification to parts
- Joint continuous improvement initiatives with suppliers

Obsolescence Management
Obsolescence Management is a service we provide to insure that we have a predictable supply of the key components and subassemblies used in our products throughout their life cycle. Through frequent road map reviews between our critical component suppliers and our supply chain team, we are notified in advance of scheduled updates as well as end of life situations. With this information we are able to design for the next generation and secure sufficient inventory to provide a seamless transition with no down time or loss of service to our customers.

Quality Assurance
MTL Azonix customers expect a quality product that performs in harsh and rugged environments. To meet these expectations MTL Azonix has implemented a quality assurance program which includes ISO 9000 and AS 9100. Vendor qualification and regular quality performance monitoring is posted through our visual performance system which includes Key Performance Indicators.

Field proven in oil exploration
New Products

Azonix Barracuda 15” Workstation

The next generation of the most popular hazardous area Zone 2 workstation is about to unfold. This updated platform has the latest in computing technology along with additional features our customers have requested for improved and expanded functionality. The new design is a drop-in replacement for the existing generation of Barracudas in form and fit to enable a smooth transition. The functionality will be equal or better depending upon user requirements. This product update also includes tier touch screen options with the introduction of a more robust glass base projected capacitive screen to improve asset up time. Along with that the unit will operate in broader temperature ranges and have a DC power option.

- Intel® i7 processor platform
- Atex Zone 2 and IECEx Class 1 Zone 2, AEx
- 15” Sunlight viewable screen
- Wide operating temperature -40°C - +60°C
- Sealed system with IP66 rating
- Resistive or Glass based projected capacitive touchscreen

Continuously striving for asset uptime while balancing performance with financial sensitivity
Zone 1 - Azonix Products

ProPanel® PRO4500Z1
- 15” sunlight readable work station
- Projected capacitive glass based touch-screen w/ glove operation
- Intel® Core™ i7 2655 processor
- I.S. wireless 802.11 a/b/g/n protocol
- Universal AC power
- Wide temperature range
- Bluetooth connectivity
- Light weight
- Multiple mounting options

ProPanel® MP2030Z1
- 15” sunlight viewable work station
- Intel® Pentium M 1.7Ghz processor
- RAM: Up to 2GB
- Storage: hard drive or flash drive up to 16GB
- ATEX Zone 1 certified - purged
- NEMA 4 rated

ProPanel® MP2040Z1
- 15” sunlight viewable work station and data acquisition system
- Intel® Pentium M 1.7GHz
- RAM: Up to 2GB
- Storage: hard drive or flash drive up to 16GB
- ATEX Zone 1 certified - purged
- NEMA 4 rated

MTL Azonix Drilling Unit (ADU)
- MTL Azonix drilling unit intrinsically safe terminal
- Rose dial, azimuth and inclination displays
- ATEX Zone 1 rated
- Single connection - power and data
- Configurable displays
- Light weight / rugged & sealed

Field proven in oil exploration
Zone 2 - Azonix Products

**ProPanel® MP2030Z2**
- 15” sunlight viewable work station
- Intel® Pentium M 1.7GHz processor
- RAM: up to 2GB
- Storage: hard drive or flash drive up to 16GB
- Fiber network
- ATEX Zone 2
- NEMA 4 rated

**ProPanel® MP2100**
- 15” sunlight viewable work station
- T7400® Core™ 2 Duo processor (2.16 GHz)
- RAM: up to 2Gb
- Storage: 80GB min hard drive
- ATEX Zone 2 and C1D2
- NEMA 4 / IP65 rated

**Barracuda 19” BOP or Barracuda 19” WS**
- 19” sunlight viewable work station
- Intel® Core™ 2 Duo 2.2GHz processor
- RAM: up to 4GB
- Storage: 32GB compact flash
- ATEX Zone 2 / CSA Class 1 Zone 2
- IP66 rated

**Barracuda 15” WS**
- 15” sunlight viewable work station
- Intel® Core 2™ Duo 2.2GHz processor
- RAM: 1GB to 4GB
- Storage: compact flash up to 32GB or 80GB HDD
- ATEX Zone 2 / CSA Class 1 Zone 2
- IP66 rated
Safe Area - Azonix Products

Barracuda Lite 19” WS
- 19” sunlight viewable work station
- Intel® Core™ 2 Duo 2.2GHz processor
- RAM: up to 2GB
- Glass based touch screen
- Storage: 32GB compact flash
- Front panel IP56 back enclosure IP52

Barracuda Lite 15” WS
- 15” sunlight viewable work station
- Intel® Core™ 2 Duo 2.2GHz processor
- RAM: up to 2GB
- Glass based touch screen
- Storage: 32GB compact flash
- Front panel IP56 / rear panel IP52

ProPanel® MP2030SA
- 10” sunlight viewable work station
- Intel® Pentium M 1.7GHz
- RAM: up to 2GB
- Storage: hard drive or flash drive up to 16GB
- Push and hold touchscreen enabler
- NEMA 4 rated
Challenger remote terminals and Explorer PC’s are an optimum solution for even the most demanding of tasks of on-site operation and visualization typically found in Pharmaceutical, Chemical, Petrochemical, Oil & Gas and Off-shore manufacturing. Specifically designed to work within hazardous and industrial environments the Challenger and Explorer HMI’s offer great flexibility due to their modular configuration to meet all your plant requirements.

**Explorer 15i / 18i PC Terminal**

- Modular system
- Certified for Ex Zone 1/2 and Zone 21/22
- Designed for harsh environments
- High reliability
- Non-wearing SSD
- Intel® Atom™ 1.6 GHz processor
- 2GB RAM

**GECMA Remote Terminal**

- Slimline housing for optimisation of space and application
- Fibre optic or copper data transmission
- Full HD capability, optical bonding, LED backlight
- Specified for use in hazardous areas
- Highest dependability
- Future proof ‘transparent’ USB interface
- Savings of software licence costs
- Wide range of International Ex approvals

This future proof solution has been designed packed full of features and state of the art technology, all found within a slimline, stainless steel package (mounting options available) and with no hidden extra costs.

A new generation, built on experience