

GECMA Workstation Industrial Series

Visualization terminal for Industrial applications

- **Available Technologies: RT(KVM), TC and PC concept**
- **Stainless Steel IP66 dust and water proof design for hygienic and harsh environments**
- **Fan-less / no movable parts for long term reliability**
- **Touchscreen functionality**
- **Windows 10 OS pre-installed and updated**
- **Fibre optic or copper data transmission**
- **Universal switching solution up to 48 end-points on request**
- **Available as complete system or panel mount**
- **Mobile options and accessories on request**
- **Designed and manufactured in Germany**



The GECMA Workstation Industrial Series is an operating terminal designed to enhance visualization within your process using high resolution display options of 19", 22" or 24". They can be specified for use as a Remote Terminal, Thin Client or Personal Computer within the strictest of hygienic conditions, aggressive indoor and outdoor production environments areas typically found in pharmaceutical, chemical, biotech, oil & gas and off-shore manufacturing.

The slim Stainless Steel housing design allows installation in various environments, a wide variety of configurations and specific mounting arrangements makes it customizable for specific requirements. The Stainless Steel material offers protection against rust and chemicals.

The water proof and dust proof design makes cleaning and maintenance very easy. The unique rounded design ensures that no dirt can settle on the housing. The IP66 ingress protection level, fan-less cooling concept and non-movable part ensure long term reliability.

Matrix switching solution, compatible with standard network switches, no specific hardware required.

Resistive touch screen, the first and the most important advantage is that it is long life. Its durability and reliability are the features which enable it to be incorporated in heavy industry machinery, commercial markets and electronic equipment. Another important advantage of this resistive touch screen is that we can touch and perform desired action by touching the screen with anything. There is no limitation to operate the screen with any special object. The screen can be touched by stylus, fingers or nail, hence flexible enough compared to other touch screen technologies and makes it the perfect choice to operate with gloves.

Operating system, with Windows 10 Professional and Windows 10 IoT Enterprise, the GECMA Workstation Industrial series supports the latest Windows technologies. All operations systems are pre-installed and updated to allow a quick start. Specific Thin Client application software available on request.

Wide range of input devices, with an independent pointing device module e.g. Trackball or Joystick, the GECMA Workstation Industrial Series can be configured to meet the application requirements. Various keyboard languages available on request.

Product compliance, all GWS Industrial standard solutions are compliant to LVD EN 61010-2-201 EMC EN 61326 and the RoHS directive. For further details see our DOC.

MTL GECMA Workstation Industrial Series

June 2020

SPECIFICATION

DISPLAY

	19"	22"	24"
Screen size:	19" (48 cm) - across diagonal	21.5" (54 cm) - across diagonal	24" (61 cm) - across diagonal
Screen type:	LCD thin film technology (TFT) with LED backlight		
Display:	1280 x 1024 pixels, lower resolutions are interpolated, 5:4 picture format, 16.7 million colours	1920 x 1080 pixels, lower resolutions are interpolated, 16:9 picture format, 16.7 million colours	1920 x 1200 pixels, lower resolutions are interpolated, 16:10 picture format, 16.7 million colours
Brightness:	Typical cd/m ² up to 350		
Surface Treatment:	Anti-glare, Hardness 3H, SAG25		
Optical Response Time:	10 ms		
Touch screen:	Yes		

TERMINAL UNIT

	RT	TC	PC
Power supply:	Input Range 90...264 VAC Efficiency up to 90% Active PFC Function Short Circuit Protection		
Input power:	30W (typical with a 35% PSU load) 45W (maximum)		
Storage:	N/A	64GB	256GB
Memory:	External memory access / connection on request	4GB RAM	8GB
Operating System:	N/A	Windows 10 IoT Enterprise LTSC/ LTSC	Windows 10 Professional
Processor:	N/A	Intel Quad-Core 2,42 GHz	
Pointing Devices:	Trackball, Mouse, Touchpad or Joystick with USB or PS2 connection		
Connections:	4 x USB 2.0 (transparent)	1 x VGA , 1 x HDMI, 3 x USB 2.0 , 1 x USB 3.0	
Ethernet Speed:	1x Ethernet speed 1000Mbps	2 x Ethernet speed 10/100/1000Mbps	
Serial port:	RS232		
Data cable (copper):	up to 150m // 492ft, GECMA cable recommended		
Fibre-optic cable:	Multi mode or Single mode		
Fibre connector:	LC Duplex		
Feature:	Switch requirements: 1000Mbps min. Layer2 / IGMP snooping	N/A	

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June 2020

MECHANICAL

Housing material:	Stainless steel	34kg (full terminal)	38kg (full terminal)
	V2A, EN10088-3 std 1.4301, AISI 304		
	V4A, EN10088-3 std 1.4404, AISI 316L (optional)		
	High polishing or powder coating (optional)		
Display size (mm):	19"	21,5"	24"
Weight terminal with standpipe (kg):	33	36	39
Dimensions enclosure (mm) (WxHxD):	594 x 560 x 75	670 x 500 x 75	733 x 558 x 75
Weight enclosure + display (kg):	15	18	21
Display Module assembly dimension (mm) (WxHxD):	509 x 429 x 60	610 x 400 x 60	675 x 461 x 60
Weight display module (kg):	7kg	8kg	11kg
Weight Keyboard option (kg):	9kg	9kg	9kg
Weight Standpipe option (kg) / height (mm):	9kg / 1207	9kg / 1207	9kg / 1207

TRANSMISSION UNIT (ONLY REQUIRED FOR RT)

Type:	Single desktop unit or 19" rack mount with up to 4 modules / redundant power supply for rack version on request.
Power consumption:	6W (typical) per unit
Data and KB/Mouse port:	USB 2.0 (transparent)
Serial port:	
Video In:	DVI
Video out:	DVI-D

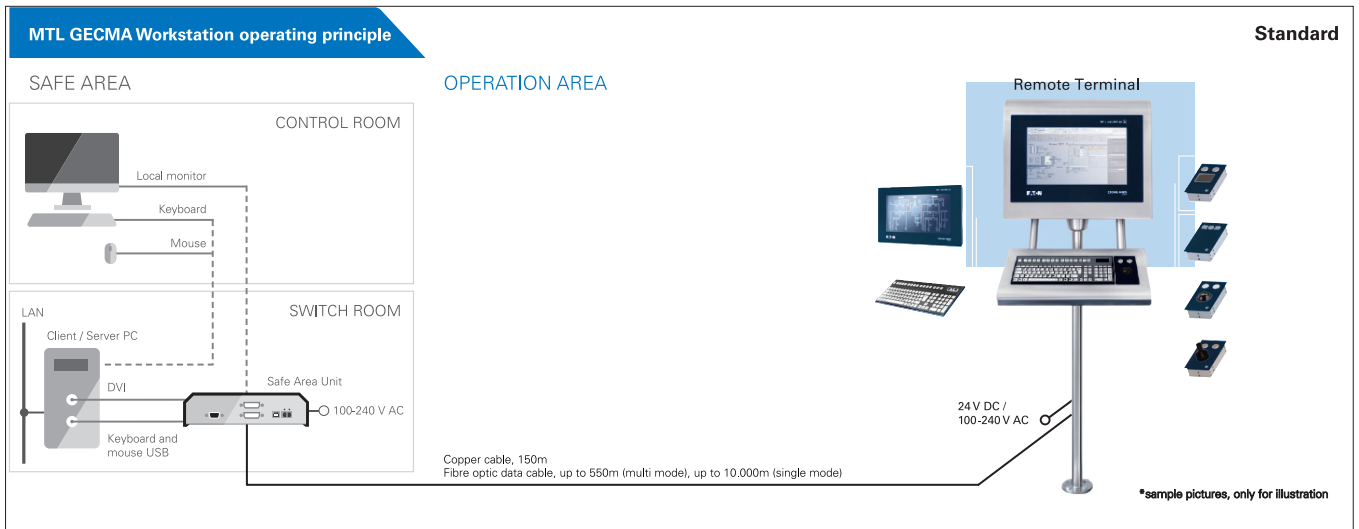
ENVIRONMENTAL

Temperature:	Operating ambient temperature: electronic modules: -10°C to +50°C (10-90% RH, non-condensing) Recommended terminal ambient: -15°C to + 45°C (10-90% RH, non-condensing) Ambient storage temperature: -40°C to +70°C (10-90% RH, non-condensing)
Ingress protection:	IP66

MTL GECMA Workstation Industrial Series

June 2020

OPERATING PRINCIPLE



Specific requirements and service, a special team of engineers will support you to find and configure the perfect solution for your application. Our request is our road-map, due to an efficient ETO process we can realize customer specific requirements even for low quantities. With regular updates and project management we will ensure that your project will be realized on time.

Our technical service team can support you with the on-site installation to ensure a flawless operational start.

Please contact our Customer service center for further details:
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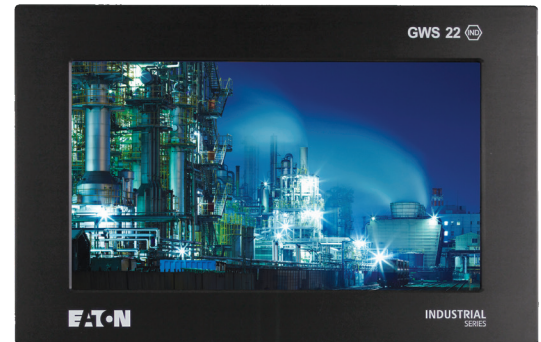
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The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.

GECMA Workstation Industrial Flex-Line

Flexible display concept for industrial applications

- **Flexibility without constraints**
- **Select your hardware of choice to ensure 100% compatibility with your applications**
- **Modular concept for efficient maintenance**
- **Stainless Steel IP66 water and dust proof design for hygienic and harsh environments**
- **Touch screen functionality**
- **Display sizes: 19", 22" and 24"**
- **Wide variety of Stainless Steel housings and mounting options available**
- **Barcode scanner / additional accessories on request**
- **Backwards compatible to existing GECMA Industrial installations**
- **Integrated Media fibre optic converter on request**
- **Designed and manufactured in Germany**



The GWS Industrial Flex-Line is an industrial display module designed for direct connection to your hardware of choice.

The Flex-Line display can be used for applications within strictest hygienic conditions, aggressive indoor and outdoor protection environments typically found in Pharmaceutical, Biotechnological, Chemical and Petro Chemical manufacturing.

The capability of using your own off the shelf Thin Client, personal Computer, Zero Client, Gateway or KVM solution

within the stainless steel housing of the GWS Industrial Flex-Line Terminal allows you to use your plant wide standardized hardware with the benefit of quick, easy and cost effective solution to your application needs. The standard hardware can be mounted inside the housing, allowing for a safe and professional installation.

The waterproof and dust proof design makes cleaning and maintenance very easy. The unique rounded design ensures that no dirt can settle on the housing. The IP66 ingress protection level ensures long term reliability.

GWS Industrial Flex-Line is also available with a large range of specialist housing options, the modular design concept enables you to benefit from a cost-effective, tailored and customized solution for your application installation.

Backwards compatibility, the GECMA Workstation is designed to be backwards compatible to former GECMA Industrial Terminals. e.g. you can keep your existing infrastructure / stainless steel housing and effectively upgrade to the new technology.

Wide range of input devices, with a independent pointing device module e.g. Trackball or Joystick, the GECMA Workstation Industrial Series can be configured to meet the application requirements. Various keyboard languages available on request.

Product compliance, all GWS Industrial standard solutions are compliant to LVD EN 61010-2-201 EMC EN 61326 and the RoHS directive. For further details see our DOC.

MTL GECMA Workstation Industrial Flex-Line

May 2020

SPECIFICATION

ELECTRICAL

Screen size:	19"	21.5"	24"
Screen type:	LCD thin film technology (TFT) with LED backlight		
Brightness:	Typical cd/m ² up to 350		
Surface Treatment:	Antiglare, Hardness 3H, SAG25		
Touch screen	Yes		
Resolution:	1280 x 1024 pixels	1920 x 1080 pixels	1920 x 1200 pixels
Number of colours:	16.7 million		

DISPLAY UNIT

Power supply:	100 - 240VAC 50/60Hz
Input power:	70W (typical) 100W (maximum)
Video Port:	1 x DVI-D socket, 1 x VGA, 1 x HDMI
Touch Interface	1 x USB A plug

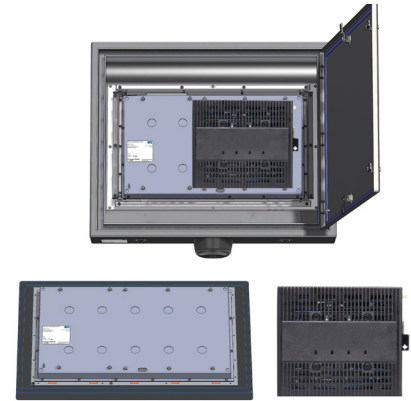
ENVIRONMENTAL

Temperature:	-10°C - +50°C
Ingress protection:	IP66 (Dust and Waterproof)

MECHANICAL

Housing Material:	Stainless steel V2A, EN std 1.4301, SAE grade 304 V4A, EN std 1.4404, SAE grade 316L (optional) High polishing or powder coating (optional)
Dimensions and weights:	Selected or designed to fit the hardware of choice and application requirements

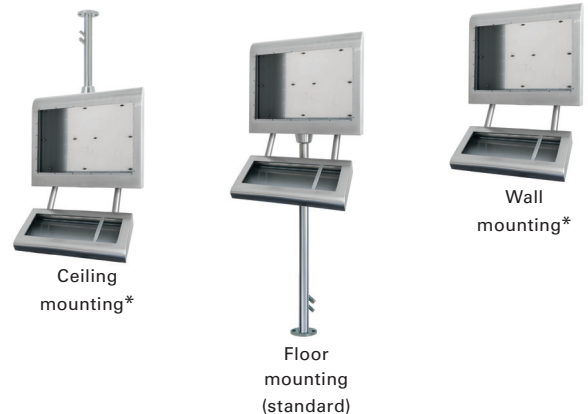
OPERATING PRINCIPLE



GWS Industrial Flex-Line Display

Custom hardware of choice (e.g. TC, PC or KVM)

ENCLOSURE OPTIONS



Further enclosure options on request

*Please contact your local sales office for these options

Specific requirements and service, a special team of engineers will support you to find and configure the perfect solution for you application. Our request is our road-map, due to an efficient ETO process we can realize customer specific requirements even for low quantities. With regular updates and project management we will ensure that your project will be realized on time. Our technical service team can support you with the on-site installation to ensure a flawless operational start.

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