Maestro

SuperBrite® **Marquee Display**

Engineered for the harsh underground mine environment .

Display real time data or messages.

Improved real time data means more time at the face.

Maestro **Digital** Mine

Finally, real time data of underground air quality, safety messages, personnel and equipment status.

Safe and Flexible

Provides real time information at refuge stations, mine levels or portal entries. Displays any information including U/G air quality, personnel or equipment location from tag readers and user created emergency or daily safety messages.

Open and Visual

Ethernet communications protocol allows direct connection to any type of control system (PLC, SCADA, HMI, DCS or PC) without any other software or hardware. SuperBrite® Tri-color LED technology provides long life, bright large alphanumeric characters in either steady or flashing format.

Fail Safe

Display flashes an error indication upon loss of network communications and the alarm relay changes state for maximum worker safety.

Plug and Play

Integration can be done in minutes using the built-in web page interface and Windows Internet Explorer.

Key Features

EZConnect

- Connect directly to any network or network switch
- Connect directly to any Vigilante AQS™ air quality station
- RJ45 connection
- Optional single or multimode fiber optic connection
- Optional wireless Ethernet or Leaky feeder connection

EZView

- Four lines of data or text
- Approximately 20 characters per line
- Large 2" high SuperBrite® LED alphanumeric characters can easily be viewed in an underground mine up to 100' away
- Characters can be red, amber or green
- Characters can be solid state or flashing
- All characters can change color according to status (ie. Green color when parameter is OK, Amber for warning and flashing Red for high level)

EZConfig

- Configuration is simple and quick using the web page interface and Internet Explorer
- No additional software is required

MineRugged

- Rugged SS enclosure eliminates moisture and dust ingress while providing maximum corrosion resistance
- Impact resistant LEXAN® clear lens for long term safe viewing
- Integrated SS mounting pads for easy mounting to drift wall or back

Communication

- Open communications protocol for easy connection to any PLC, SCADA, HMI, DCS or PC based system
- Standard Ethernet Modbus TCP or Modbus RS485 protocol
- Optional Allen Bradley EtherNetIP™ protocol
- Direct web page text entry from anywhere on the network
- Data can be posted from any third party software platform
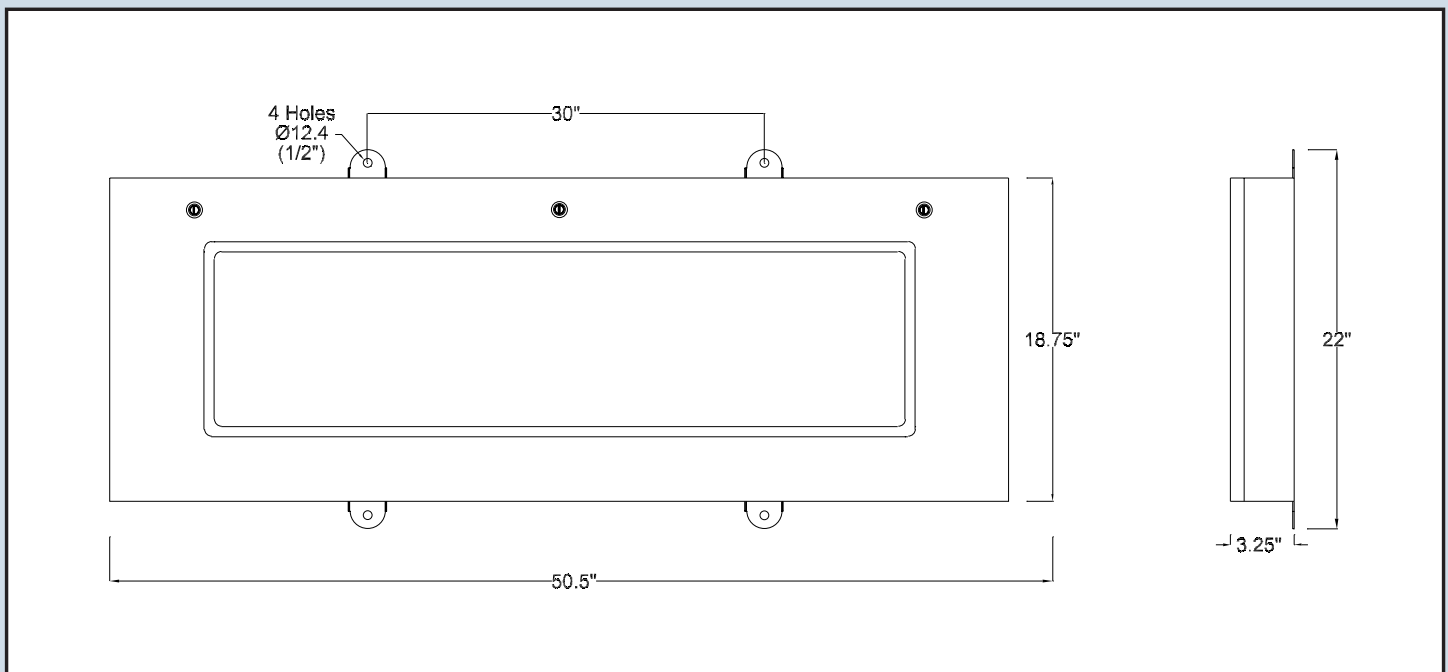
Power Requirements

- 110 to 220 VAC CUL General Purpose power supply
- Less than 1 amp current draw with all LEDs on

Outputs

- One 4-20 mA DC output signal, optically isolated
- 2.5 kV isolation
- Three Form A Relays, Normally Open, 8 Amps 250 VAC/ 5 Amps 30 VDC
- All outputs are set via Modbus registers
- Any relay can be configured for equipment failure alarm

Physical Parameters

- Outside dimensions 50½" x 18¾" x 3¼"
- NEMA 4X enclosure
- Stainless Steel Enclosure
- Four Stainless Steel reinforced mounting tabs
- Impact resistant LEXAN® lens
- -20 to +40°C operating temperature range
- Shipment weight and dimensions 65 LBS - 26" X 55" X 9" (29.5 KG - 661 mm X 1397 mm X 229 mm)

www.maestrodigitalmine.com

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Maestro
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