

Maestro

**NEW &
IMPROVED!**

SuperBrite™ Marquee Display

Engineered for the harsh underground mine environment.

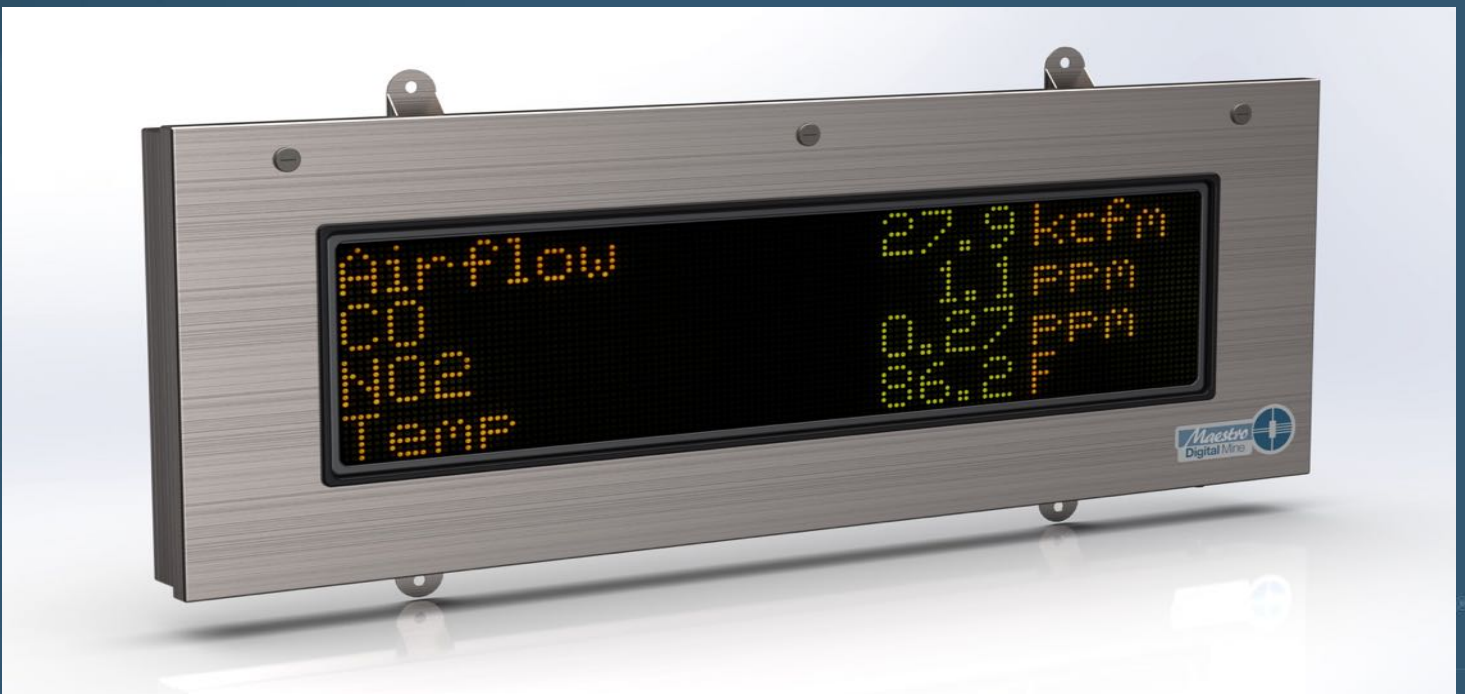


The SuperBrite™ Marquee Display easily integrates into any control system and provides fail-safe, real-time data by ensuring only current information is presented.

Robust • Bright • Safe

SuperBrite™ Marquee Display

The only fail-safe sign on the planet



Maximum flexibility with minimum user effort

The newly improved SuperBrite™ Marquee display uses state-of-the-art tri-colour LED's (green, amber, red) arranged in a total of eight fully addressable lines that can be viewed by two alternating pages with four lines on each page. Making the complex-simple, each line can be populated by four different methods; Modbus TCP/IP registers, EtherNet/IP™ registers, text entry via the built-in webpage or HTTP POST message using JavaScript Object Notation (JSON).

By using digital registers, the SuperBrite™ Marquee will display the tag parameters. The parameter colour and the state (solid or flashing) are triggered by registers. Through webpage configuration, text can be written and associated to every tag variable. As a use case example, increasing carbon monoxide gas levels will change in colour from green to amber and then to flashing red by configuring alarm set point values for high and high/high states.

By simple configuration, you can write directly to the Marquee from any Vigilante AQS™ or Zephyr AQS™ air quality station or by a SCADA, DCS, PLC or HMI control system without the requirement of any additional hardware or software.

Simple direct connectivity when the network infrastructure has not arrived


In addition to connecting to a network, the SuperBrite™ Marquee can connect directly to either a Zephyr AQS™ or Vigilante AQS™ without the requirement of being on a mine-wide communication network. By simply using the built-in webpages, the display can be quickly configured in minutes to display important environmental and worker safety conditions. Excellent for mine development safety.



Wireless connection to network with the EZ Node™ Wireless Adapter

The EZ Node™ Wireless 802.11 adapter allows any Maestro product to connect directly to a wireless network.

The only fail-safe sign in mining

Miner safety is paramount and the SuperBrite™ Marquee provides full fail-safe benefits so that only current information is displayed, preventing unsafe old data from remaining on the display when the network is offline. The display will change from the last value to flashing red  to alert the miners of a network interruption. Once the network is re-established the current values will be automatically updated.



The **Maestro** Ecosystem

Mine hardened
Stainless Steel,
NEMA 4X enclosure
and bullet proof
LEXAN® lens for
maximum
protection.



SuperBrite™
Marquee Display



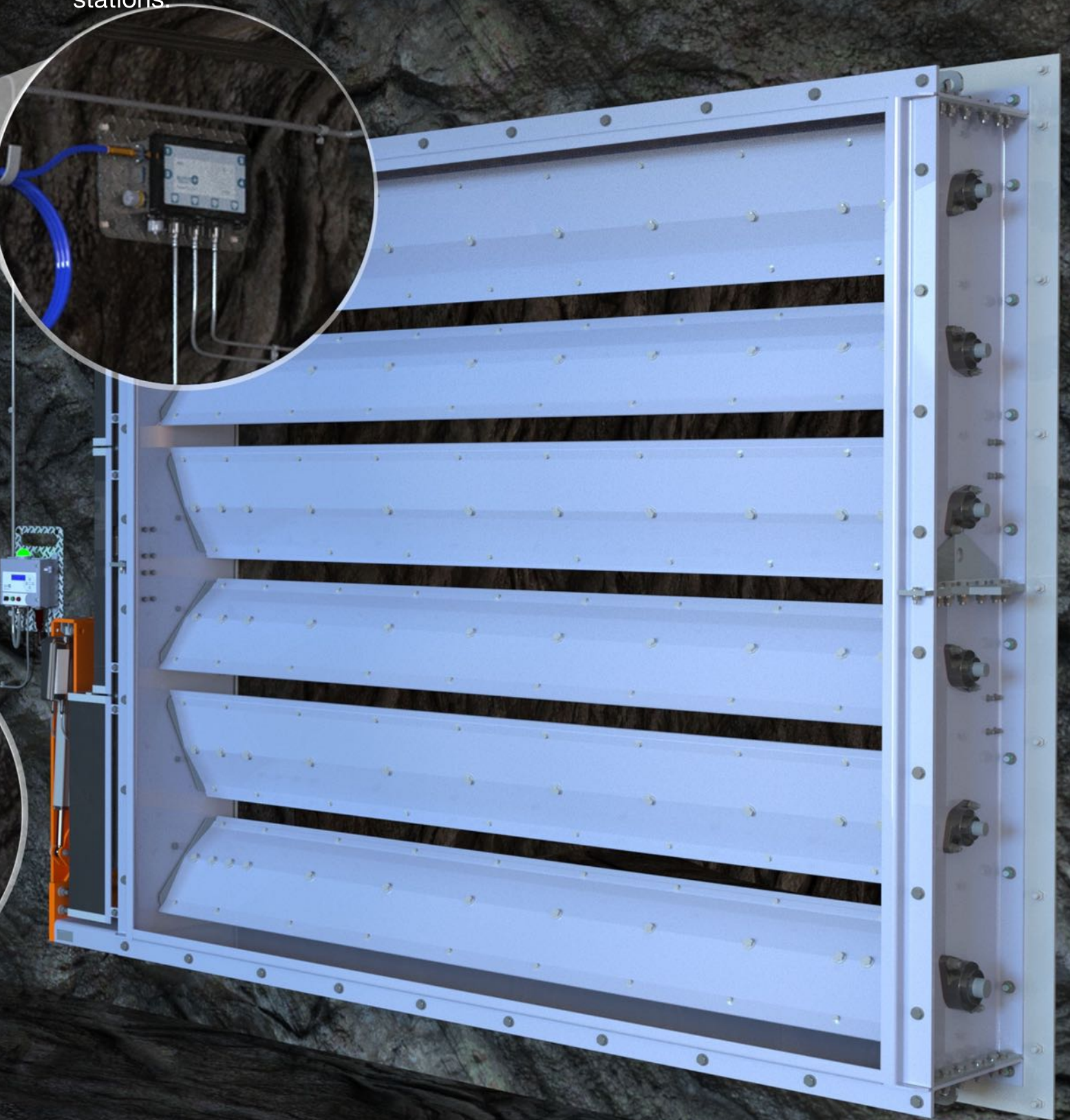
Simple, direct
connectivity to any
Vigilante AQS™ or
Zephyr AQS™ air
quality station.



The SuperBrite™
Marquee shows real-
time data of
connected devices
like airflow volume or
velocity.

Plexus PowerNet™
provides network
connectivity and DC
power to air quality
stations.

Making the Complex **Simple**



Worker safety at work – 100% of the time

Text messages can be written to the display on an ad hoc basis. As an example, a control operator may post an emergency text message on the level display, like “RETURN TO REFUGE STATION”. The text can quickly be added to the display from any PC on the network via the display webpage or through the mine control system.



A safe solution for colour blindness

The SuperBrite™ Marquee provides three output relays that can be utilized for vertical traffic light stack applications for miners that may suffer from colour blindness. The vertical position of the light will signal if the area is safe to enter based upon gas limits.



Vertical
← Traffic
Light



Eight tri-colour fully addressable lines

Simple display configuration

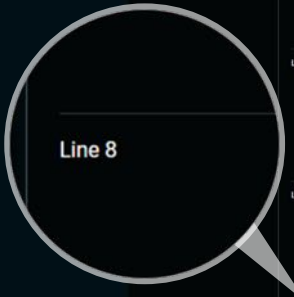
Each display parameter is configured for user defined text, units and colour.

The screenshot shows the 'SuperBrite™ Marquee Display' configuration interface. The main panel is titled 'Line Configuration' and lists eight lines (Line 1 to Line 8). Each line has an 'Enable' checkbox and a 'Type' selector (Parameter, Static Text, Dynamic Text, Device Name). Below the type selector are three input fields: 'Displayed Parameter Name', 'Displayed Parameter Unit', and 'Displayed Parameter Format'. A 'SAVE' button is at the bottom.

Line	Enable	Type	Displayed Parameter Name	Displayed Parameter Unit	Displayed Parameter Format
Line 1	<input checked="" type="checkbox"/>	Parameter	Airflow	kcfm	5.1
Line 2	<input checked="" type="checkbox"/>	Parameter	CO	ppm	5.1
Line 3	<input checked="" type="checkbox"/>	Parameter	NO2	ppm	5.2
Line 4	<input checked="" type="checkbox"/>	Parameter	Temp.	F	5.1
Line 5	<input checked="" type="checkbox"/>	Dynamic Text	param5		
Line 6	<input checked="" type="checkbox"/>	Dynamic Text	param6		
Line 7	<input checked="" type="checkbox"/>	Dynamic Text	param7		
Line 8	<input checked="" type="checkbox"/>	Dynamic Text	param8		



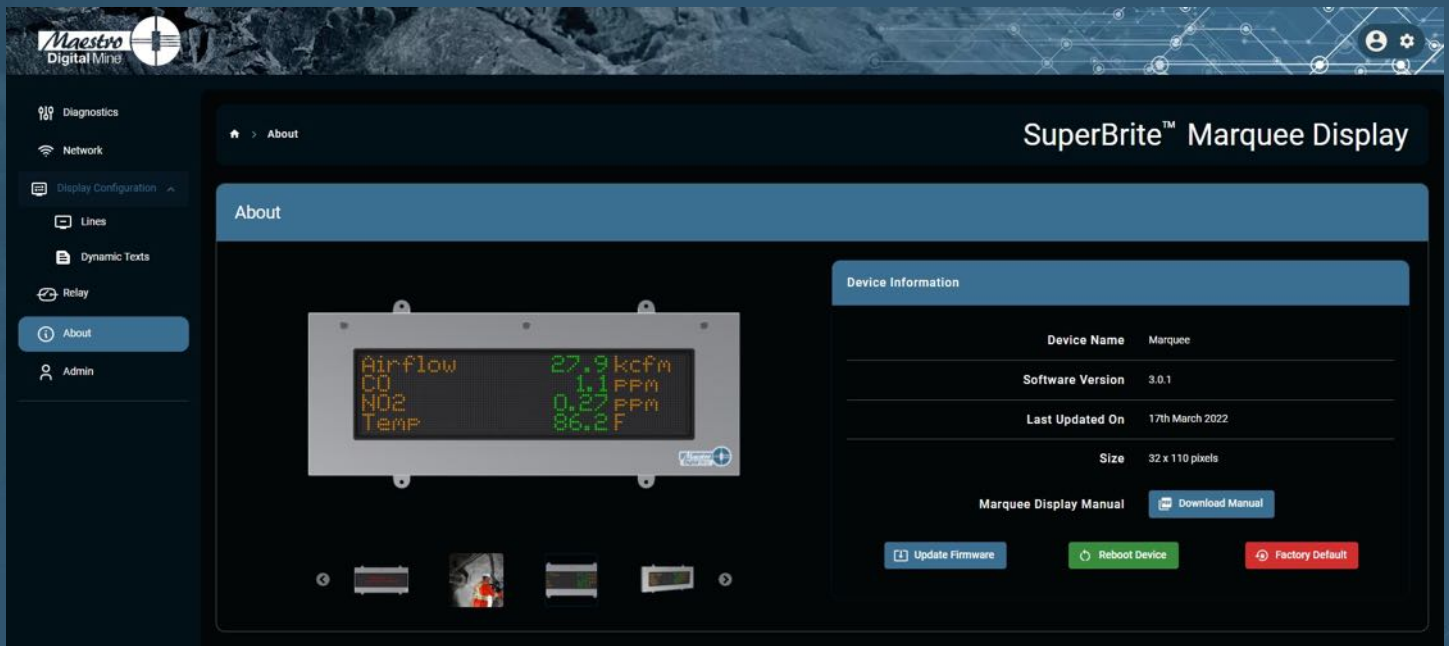
The **Enable** checkbox allows the user to choose between displaying 1 or 2 screens by selecting the lines you want to use and disabling the ones that are not needed.



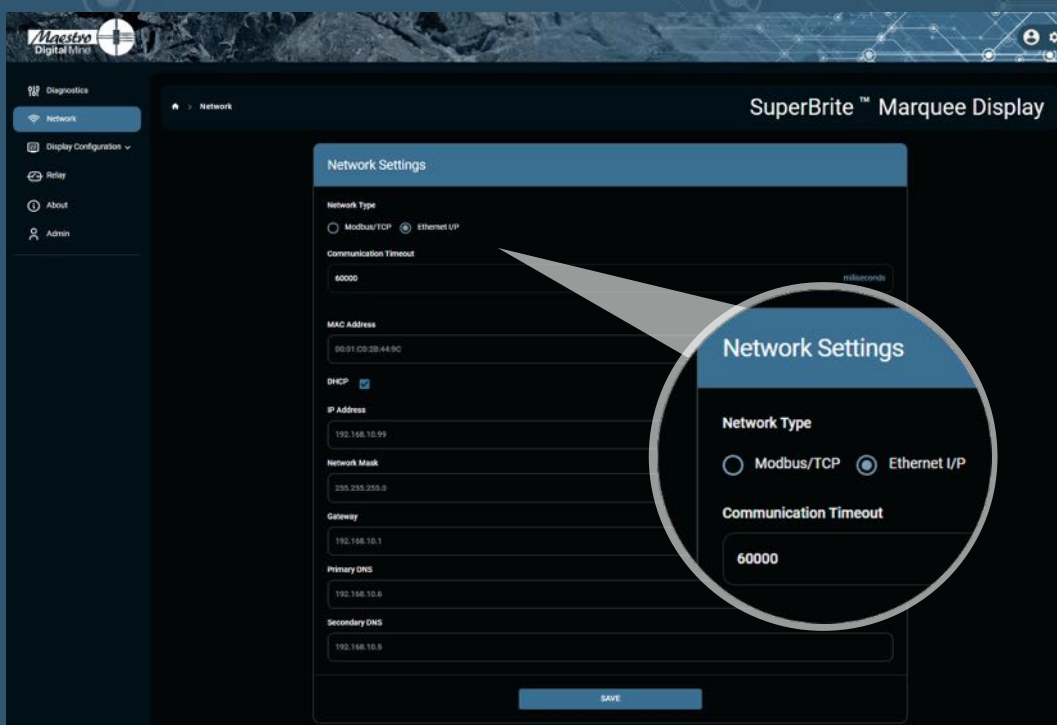
Line 8

Stay current with new software features

Through the **About** tab, easily update to the latest version of firmware anywhere on the network without having to visit each display in the field. The **Reboot Device** and **Factory Default** buttons provide a convenient and fast way for configuration changes when needed.



The **About** webpage provides specific device information and also holds the PDF manual available for download.



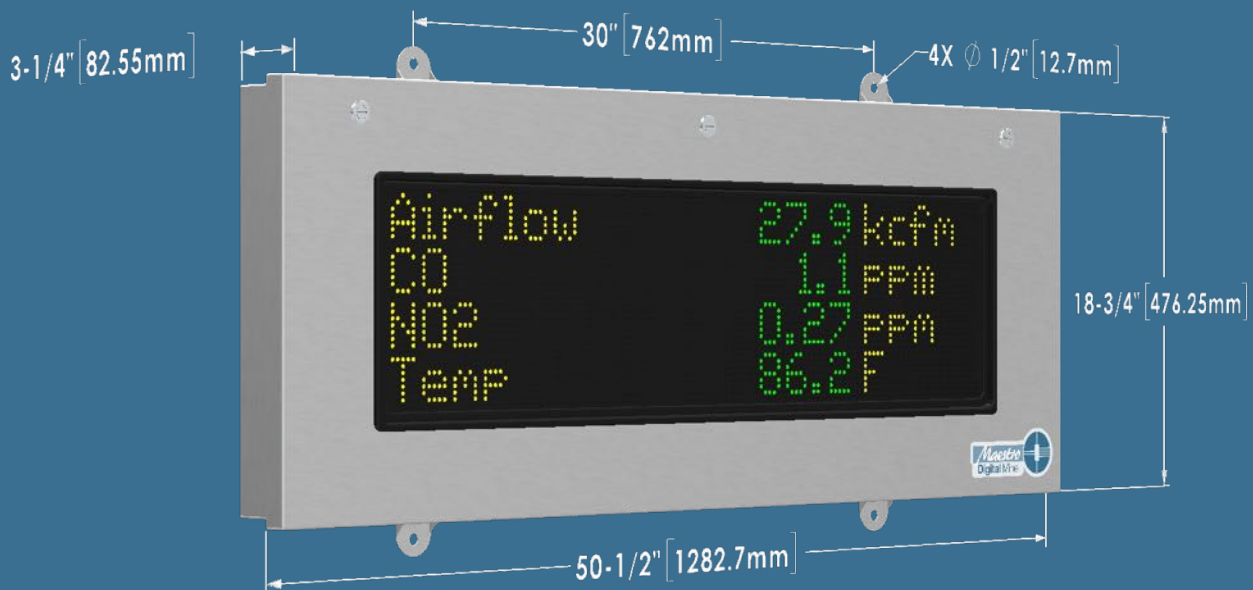
The SuperBrite™ Marquee Display is fully enabled for **Ethernet** Networking.

All configuration is carried out through a standard web browser, allowing the unit to be configured from anywhere on the network.

Technical Specifications



Technical Specifications	SuperBrite™ Marquee Display
General	Tri-colour LED's arranged in addressable lines Total of eight lines (4 lines with two alternating pages) 2" character height. Approximately 20 characters per line CE Compliant
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)
Power Requirements	Universal power supply (85-264 VAC, 47-63 Hz, 1 amp maximum peak draw)
Communications	Native on-board Modbus Ethernet TCP/IP and Ethernet/IP™ digital communications RJ45 connection Registers provided for tag name, tag value and tag units, LED colour and solid/flashing LED state Three output SPDT (Form C) relays, 8 amp rated @ 250 VAC Direct web page text entry from anywhere on the network Data can be sent from any third party software platform via HTTP POST using JavaScript Object Notation (JSON).



Click the link to learn more about the [SuperBrite™ Marquee Display](#)

Maestro
Digital Mine



Real time data means more time at the face.



We leave no one stranded

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