



em-Control
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em-Controller Specifications

Engineered for demanding mining and industrial environments, the em-Controller delivers intelligent lighting control of your em-Light RGB LED Light Strip, to provide the appropriate visual alert based on the situation at hand.

The em-Controller can be configured for manual or automated operation via Wi-Fi or Ethernet communications with full integration via any 3rd party system. PLC, SCADA, Modbus TCP, JSON HTTP options available.

Product	em-Controller
Electrical Characteristics	
Voltage Input	12-48 VDC
Nominal Voltage	24VDC
Frequency Range	2412 ~ 2484 MHz
Current	0.5A em-Controller <15A lights
Communication Modes	
Wi-Fi 802.11 b/g/n Ethernet 10/100Mbps	
Protocols	
Modbus TCP, JSON, HTTP, SMTP	
Software	
em-View - built in web interface em-View API - allows integration of your em-Controllers through third party systems	
Physical	
Material	Polycarbonate
Dimensions (mm)	150 x 110 x 95 (WxDxH)

Environmental	
IP Rating	IP65
Operating Temp Range	-40°C TO 55°C
Lifespan	Up to 10 years
Warranty	2 years
Lighting Colour Options	User defined (software/interface)
Default Factory Colours	Red, Green, Blue, White
Light Modes User Defined (software/interface) Static, chasing, pulsing, direction	
Regulations/Compliance	ROHS, CE,RCM

Key Features

- Manual and remote operating modes
- Ethernet and Wi-Fi connectivity
- Modbus TCP and JSON HTTP integration
- Compatible with PLC and SCADA systems
- RGB colour and pulse pattern configuration
- Manual override for communication outages

em-Lighting Specifications

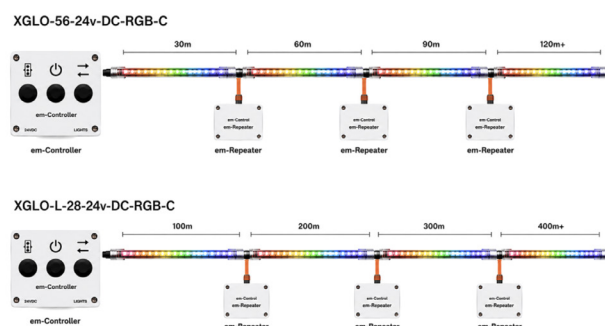
The em-Light range of LED Strip Lights are designed to be used for any application requiring multi-colour (RGB) or single colour (Red, Amber, Green, Blue) lighting in conjunction with the em-Controller or standalone.

em-Light provides a visual alert when conditions change. Single or multiple colours of light can be customised across the strip for runs up to 500m per em-Controller - Master unit with repeaters.

Typically used to provide real-time visual alerts and direction for traffic management, refuge chamber identification, seismic events and gas detection, are some of the many implementations using the em-Control system.

Popular em-Light Configurations*

Part Code	Length Before Repeating	Repeaters	Max length	Wattage	Lumens
Multicolour (RGB)					
Em-Light-56-24v-DC-RGB-c	30m	7	240m	12	355lm
Em-Light-L-28-24v-DC-RGB-C	100m	5	500m	3	135lm
Single Colour (available in Red/Green/Amber)					
Em-Light-14-24V-DC-xC (where x is r/g/a)	100m	5	500m	1	R - 15lm G - 50lm A - 15lm





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em-Control System Emergency Lighting Packages

Every em-Control system requires power, lighting and a controller. If the lighting is to be used over longer distances, then multiple repeaters and power supplies will be required. Speak to the MineGlow Sales Team to provide a bill of materials based on your requirement.



MineGlow Power Supply to power each light strip, em-Controller and any optional em-repeaters installed.



em-Controller to intelligently configure and control your em-Light strip enabling seamless integration to PLCs and computer systems.



em-Repeater delivers power to your light strips allowing a continuous controllable light array of up to 500m by injecting power and repeating the signal, as needed.



em-Lights carefully select the type of lighting type needed and the required distance.

A single em-Controller with em-Repeaters can control from 10m to 500m of LED Strip Lights management.

Contact the MineGlow Sales Team to discuss your requirement today!