

ST56MEL-CO₂

Ø56mm built-in CO₂ sensor LED Steady/Flashing Tower light



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Special LED tower light helps regular ventilation as it shows visual signal when it detects certain level of CO₂.

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- CO₂ detecting Signal tower light that helps indoor air monitoring and smart ventilation
- Built-in long lifetime NDIR Infrared ray CO₂ detecting sensor
- LED Steady/Flashing CO₂ LED Tower Light
- Long product lifetime of over 20,000hours with a high intensity LED light source
- Materials : Lens-AS Housing-ABS
- Ambient operating : -15°C to +45°C
- Protection rating : IP20
- Compliant with RoHS directive

Model number	Layers	Voltage	Current	Certificates	Weight	Color
ST56MEL-CO ₂	3	DC12V	0.200A	-	0.30kg	<ul style="list-style-type: none"> • R-Red • A-Amber • G-Green
		AC110V-220V	0.080A		0.35kg	

Switching critical value for each color(ppm)

Color	R-Red	A-Amber	G-Green
Switching critical value	2,000 ppm	1,000-2,000 ppm	400-1,000 ppm

Precautions for Correct Use

Operation

- When it turns on, it flashes over 3 minutes in order to stabilize CO₂ sensor. And it will be a steady mode after stabilization.
- Green LED is steady mode when CO₂ level is 400 to 1,000ppm and Amber LED is steady mode when CO₂ level is 1,000 to 2,000ppm.
- The unit activates an alarm to notify high level of CO₂ when CO₂ level exceeds 2,000ppm. Red LED flashes and buzzer beeps over 1 minute.

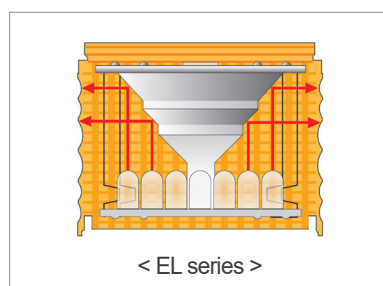
Amber LED flashes when product has an error

- CO₂ tower light have a self-diagnose feature that Amber LED flashes when it has an error. If so please turn off power over 5 minutes and turn it on later.
- If it still has a problem, please relocate the unit where clean air is. Then please run the unit around 30 minutes and return to the original place once it works normally.

Operation check

- Please gently breathe out in to the ventilation opening about 10 to 30 seconds after initial 3 minutes of powering on.
- CO₂ tower light turns Amber LED and Red LED on in accordance with CO₂ level from the exhalation that contains 40,000 to 50,000ppm of CO₂.

Reflection System



- Qlight's special light distribution system with multi-tiered reflector provides linear and balanced light transmission to the lens for strong LED illumination throughout the product
- The special light diffusion structure inside the product creates the brightest signal light at the center of the lens.

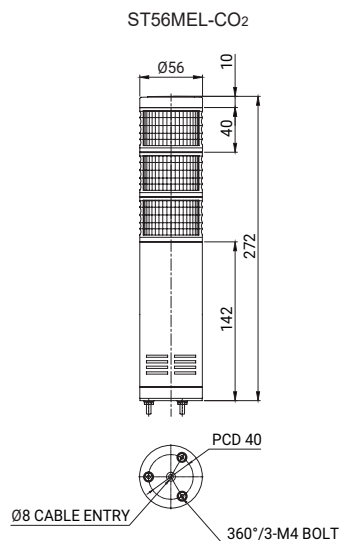
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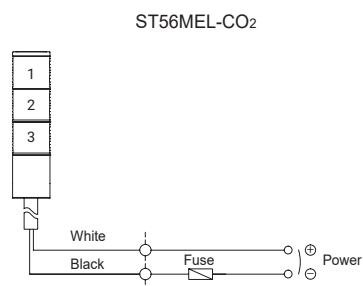


Technical Diagram

(Units : mm)



Wiring Instructions



- External signal line - UL1015 AWG18(0.75sq) × 2C 400mm



Customization

- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall Mount Bracket
TWS45



Wall Mount Bracket
TWA45



Ordering Specification

ST56MEL-CO₂	-	3	-	12	-	RAG
[Model number]		[Layer]		[Voltage]		[Color]
• ST56MEL-CO ₂		• 3-3Layers		• 12-DC12V • 110/220-AC110V-220V		• R-Red • A-Amber • G-Green