

Operating Instructions
Explosion-proof Exit Sign
Model E1215
Top Hi-Tech Co., Ltd.



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1. General Safety Instructions



WARNING

This manual contains basic safety instructions to be observed during installation, operation and maintenance of the apparatus, and for properly and safety run of the apparatus according to its performance data. Any damage of the apparatus may result explosion protection null and void. This manual represents the most relevant information about the product, applicable codes and regulations shall supplement it. Non-observance will endanger persons, plant and the environment. The person in charge is required to secure its employment in the industrial unit. Any improper usage, as well as non-compliance with the rules under this manual, shall release the manufacturer's all responsibilities. The flameproof joints are not intended to be dis-assembled or repaired.

WARNING – The luminaire shall not be opened

1.1 Before assembly/commissioning :

- ☞ Read through the operating instructions.
- ☞ Give adequate training to the assembly and operating personnel.
- ☞ Ensure that the contents of the operating instructions are fully understood by the personnel in charge.
- ☞ The national installation and assembly regulations apply (e.g. CNS 3376-14).

1.2 Before Device running:

- ☞ Ensure the operating instructions are made available for the person in charge on location at all times.
- ☞ Observe these instructions, other working instructions and national safety regulations.
- ☞ Confirm that the relevant safety instructions are followed

2. Intended Field of Application

The Universal Explosion Proof LED Lighting, Model E1215 is intended for using in gas explosive atmospheres (Zone 1 and Zone 2) and dust explosion hazards (Zone 21 and Zone 22). The apparatus is designed for using in indoor and outdoor environments.

This equipment only used in the hazardous environment for which it is intended to be used above

3. Standards

CNS 3376-0 、CNS 3376-1 、IEC 60079-31,

4. Technical Data

| ITEM | Description |
|------------------|--------------------------------------|
| EX Marking | Ex db IIC T6 Gb/ Ex tb IIIC T85°C Db |
| Voltage (±10%) | 110Vac / 220Vac, 60Hz |
| Ambient Temp. | 0°C ~ +40°C |
| IP rating | IP67 |
| Housing Material | Aluminum alloy |
| LED life | 45,000 hrs |

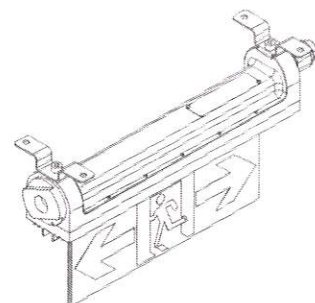
5. Mode Code

| | | | | | | | | | |
|-----|---|----|---|-----|---|---|---|---|------|
| THT | - | 2E | A | 08W | d | 6 | 4 | C | 1215 |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

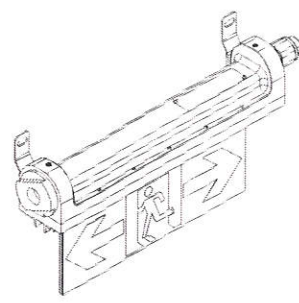
1. Brand Name
2. Category of product, E = Emergency Lighting
3. Voltage type: A=AC input
4. Power rate: 08=08w, 07=07w, 04=04w
5. Protector type: d=type d
6. T code: 6=T6
7. Voltage code: 4=110V&220V
8. CCT: C=Cool White
9. Model name: 1215=E1215

6. Bracket Type

Ceiling Mounting



Wall Mounting



7. Assembly and Installation

7.1 Mounting Bracket Installation

- ☞ Follow standard to ensure compliance with installation requirements for appropriate hazardous area installations.
- ☞ Confirm whether the lamp type and bracket meet the requirements.
- ☞ It is recommended to lock the ceiling, wall or steel frame with suitable screws
- ☞ Before installation, it is necessary to confirm the electrical tube and junction box corresponding to the straight tube tooth row, and check whether the lamps and related accessories are firmly locked after locking.
- ☞ Grounding measures Anti-corrosion properties: The grounding screw is made of SUS304, and the external grounding wire specification is $\geq 4 \text{ mm}^2$.

7.2 Installation Precautions

- ☞ During the estimated work period, the responsible person in the district needs to ensure that there is no flammable gas, and there is a written certificate.
- ☞ Fix the main body of the lamp according to the installation instructions.
- ☞ Grounding measures Anti-corrosion properties: The grounding screw is made of SUS304.
- ☞ Take the M8 screw (torque: 61.0 kgf.cm) through the screw hole on the bracket and lock it into the position where the lamp is to be installed.
- ☞ When installing the product for the first time, please charge the product continuously for 48 hours.
- ☞ If the product is not charged for more than 30 days, the battery may be damaged or invalid. When the product is not powered on for 30 days, it should be continuously charged for 48 hours.

7.3 Putting into Service

Before putting into operating, it's necessary to ensure that:

- ☞ The lighting is correctly installed.
- ☞ The connection has been correctly made.
- ☞ The cable has been inserted correctly.
- ☞ The voltage is correctly
- ☞ Charge time: 48hrs, Lighting time 60 minutes

8. Maintenance

⚠ WARNING

- ☞ To avoid dangers due to energized parts, It must be disconnected from the power supply before installation.
- ☞ To avoid risk of hurt, let the luminaire cool down for approximate 30 minutes before touch.
- ☞ Repairs are only to be carried out by the manufacturer, Unauthorized repairs will cause the product ineffective.

8.1 Regular Maintenance

- ☞ According to standard to determine the type and extent of inspections.
- ☞ Regularly arrange a test plan to avoid damage to the equipment.
- ☞ Cracks or damages on the glass and/or on the enclosure.
- ☞ Condition of the connecting cables.
- ☞ The Cable Gland is completely tightened
- ☞ Screws of the mounting bracket are tightened.

8.2 Clean

⚠ WARNING

- ☞ Don't use corrosive cleaning agents or steel brushes
- ☞ Use reductant for cleaning.

9. Accessories and Spare Parts

⚠ WARNING

- ☞ Use only original THT-EX accessories and spare parts.
- ☞ For accessories and spare parts, see data sheet at www.tht-ex.com.

10. Transport, Storage and Disposal

Transport and storage is only allowed in the original packaging, on the way pointed out on the carton box.

- ☞ Transport – Shock-free in its original carton, do not drop, and handle carefully.
- ☞ Store – Store in a dry place in its original packaging.
- ☞ Disposal – Ensure environmentally friendly disposal of all components according to the legal regulations.

