

TROX UK Ltd

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Installation and Maintenance (Safety) Instructions



Safety Information

- Installation, commissioning and electrical installation should be performed by trained competent personnel in accordance with BS7671 IET Wiring Regulations.



Hazardous Electrical Voltage!

- Where displayed, this symbol indicates Hazardous Electrical Voltage!
- Only skilled qualified electricians are allowed to work on parts of the unit marked with this symbol.
- Skilled qualified electricians are individuals who have sufficient professional or technical training, knowledge and experience to enable them to work on electrical systems, understand any potential hazards related to the work under consideration, and recognise and avoid any risks involved.

Danger of Death Due to Electric Shock current!

- Do not touch any live components!
- Switch off the power supply and isolate the unit before performing maintenance or cleaning.
- Damaged insulation or damaged parts are a life threatening hazard.
- If the insulation or equipment is damaged, disconnect the power supply immediately and inform the relevant person so that the unit can be repaired, replaced or made safe.
- Ensure that live parts do not come into contact with moisture. Moisture can cause a short circuit.
- Do not modify or tamper with the unit.

Operating Conditions

- All products are high voltage tested during manufacture. Additional high voltage testing is not recommended as it will cause permanent component damage and may reduce the operating life.
- Incorrect use of the unit can lead to dangerous situations:
 - Do not operate the unit in rooms with explosive gases or gas mixtures.
 - Do not operate the unit in rooms where the air contains particles that are conductive, aggressive, corrosive, combustible or hazardous to health.
 - Do not operate the unit in rooms where the humidity is permanently high (> 90 %)
 - Do not operate the unit outdoors.
 - The unit and all controls must remain accessible for maintenance and cleaning.

Delivery and Storage

- Check items immediately after arrival for transport damage and completeness. If there is any visible damage, either do not accept the delivered items, or note down the damage on the shipping company's delivery note and immediately file a complaint with the shipping company and TROX.
- Immediately after delivery, check units for completeness and transport damage. If delivery is incomplete or if transport damage has occurred, inform the carriers and TROX immediately.
- Units are supplied packaged at the factory to comply with the requirements for the agreed mode of transport.
- Use suitable lifting equipment.
- Avoid excessive vibration and shock loads.
- Do not expose the units (even when packed) to the direct effects of weather. Protect from water, direct sunlight, dirt, extreme heat and cold.
- Store the unit only in its original packaging.
- Do not store in temperatures above 50 °C or below 0°C. Relative humidity 95 % max., no condensation.
- Avoid excessive storage periods longer than six months, and inspect equipment for proper operation after prolonged storage.

Transport on Site

- Units should not be carried by the control components but only by the terminal unit edges.
- When transporting manually, please refer to Health & Safety guidelines for recommended maximum weight.
- If possible, take the module in its transport packaging up to the installation location.
- Use only lifting and transport gear designed for the required load.
- Always secure the load against tipping and falling.
- Do not move bulky items just by yourself. Get help to prevent injuries and damage.
- (If fitted) a differential pressure sensor in the spigot connection is a measuring instrument which is extremely important for correct unit functioning, and must be handled with particular care. Do not pull on the aluminium tubes of the sensors.



- Always wear protective gloves - the unit may have sharp edges or sharp corners and thin sheet metal parts may cause cuts and grazes.



- Always wear safety shoes to protect feet from crushing, falling parts and prevent slipping on a slippery floor.



- Safety helmets protect the head from falling objects, suspended loads, and the effects of striking the head against stationary objects.

Installation

- Before you install the unit, take suitable precautions to protect the unit from contamination during installation and ensure that the unit cannot be started.
- Ensure that all components are clean before you install them. If necessary, clean them thoroughly.
- If you have to interrupt the installation procedure, protect all openings from the ingress of dust or moisture.
- Units must only be installed such that the control components and maintenance openings remain accessible.
- Do not confuse supply and extract air units. Note the air flow direction arrow on the unit label.
- Do not confuse the units for master and slave control units (e.g. supply and extract air).
- Units with membrane pressure transducers should be mounted in the position shown by the label. Consult TROX for approval before fitting in other positions or moving the pressure transducer.
- Note that for installation before and after bends, dampers or other flow distortion elements, can result in increased flow tolerance and noise level.
- Properly dispose of packaging material and recycle wherever possible.
- Refer to the unit Operation and Maintenance Manual for further information.

Operation

- Before initial operation, check the following:
 - Installation and electrical connections have been properly completed.
 - All installation materials, packaging and any foreign materials are removed.

Maintenance and Service

- The following must be observed when performing any maintenance or service operation:
 - The power supply to the unit has been interrupted and secured against restoration.
 - Follow the site approved safe isolation procedure.
 - Observe all personnel safety rules and regulations.
 - Refer to the unit Operation and Maintenance Manual for further information.