



enLink Air-X Installation Guide

LoRaWAN Outdoor Air Quality Monitor

enLink Air-X LoRaWAN wireless Air Quality Monitor is a precision instrument which accurately measures up to 13 key environmental parameters including Temperature, Humidity, Oxygen, Carbon Dioxide, VOC's, Particulate Matter and others.

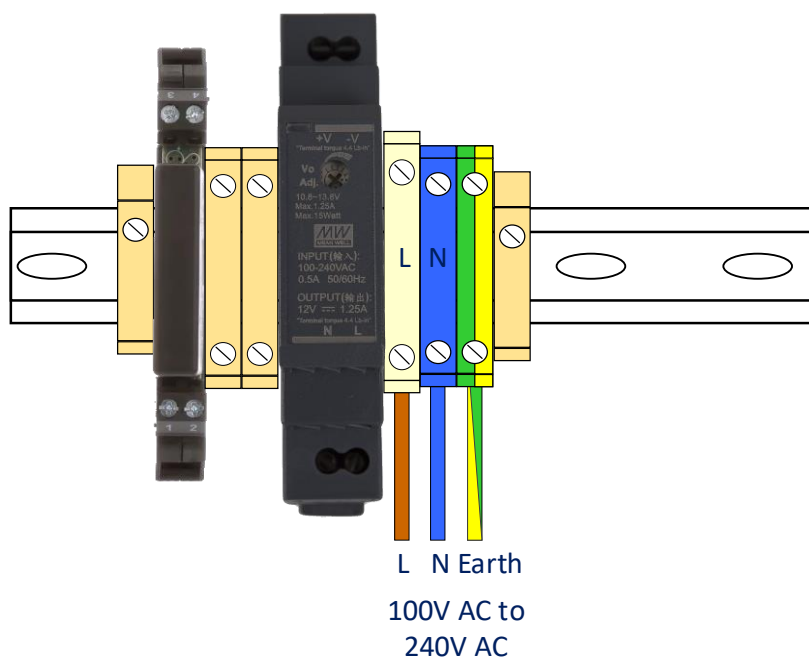
The unit is supplied in an IP24 / NEMA enclosure measuring 321mm x 244mm x 116mm. A low voltage fan is automatically controlled by the enLink Air-X to sample the air at the configured interval. The control unit is specially coated to increase resistance to corrosion from moisture in the sampled air.

enLink Air-X should be installed on an elevation which is North facing (or south facing in the southern hemisphere) and away from direct sunlight which would affect the readings.

The unit should be attached to a wall or other surface using appropriate screw fixings. To maintain the IP rating of the unit, apply sealant around the screw holes and use the provided cable compression gland for cable entry.

The unit must be powered from a mains electricity supply of between 100V AV and 240V AC which should be fused at 3 Amps. Optionally, the unit can be supplied for 12 Volt DC operation.

For mains operated units, apply the mains electricity supply as shown in the diagram below, ensuring that the live conductor is connected to the fused connector marked L, the neutral to the blue connector marked N and the Earth to the yellow and green connector.



Danger

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Only qualified electricians should install this equipment. Work should be performed only after reading all instructions.

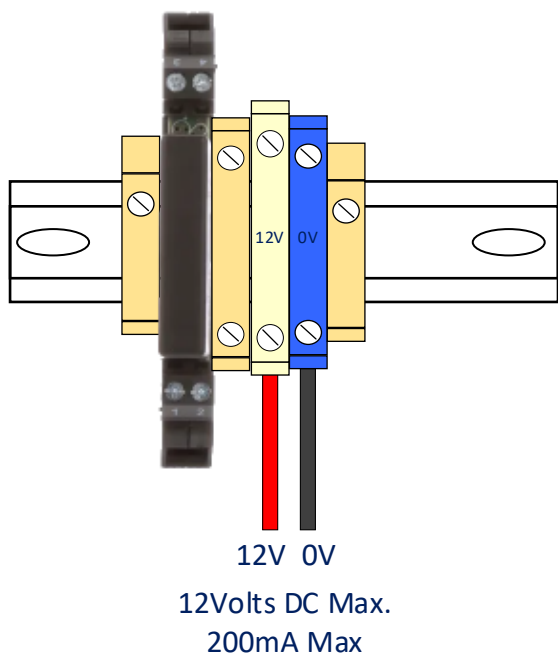
- Never work alone.
- Before performing visual inspections, tests, or maintenance on this equipment, disconnect all sources of electric power.
- The correct operation of this equipment depends upon proper handling, installation, and operation. Neglecting fundamental installation requirements may lead to personal injury as well as damage to electrical equipment or other property.
- Failure to follow these instructions may result in death or serious injury.

Refer to the *enLink Air-X User Guide* for details on how to configure the unit.

Low Voltage power supply option

The enLink Air-X, may optionally, be supplied for 12V DC operation.

The connection details are shown below. Apply 12V DC to the 12V fused terminal, 0V to the 0V terminal taking care to observe the correct polarity.



Installation

The enLink Air-X enclosures can be wall mounted using the supplied hardware or pole mounted using the optional NMK Series pole mounting kit. Contact Synetica for more details.

Wall Mounting

Step 1.

Using a 6.5mm / ¼" drill bit, drill two holes into the rear of the enclosure at the locations shown. The enLink Air-X enclosures can be wall mounted using the supplied hardware or pole mounted using an optional mounting kit.

Step 2.

Drill wall as required. See mounting hole dimensions below. Included with the enclosure are (4) Sealing Washers and (4) Screws with wall plugs.

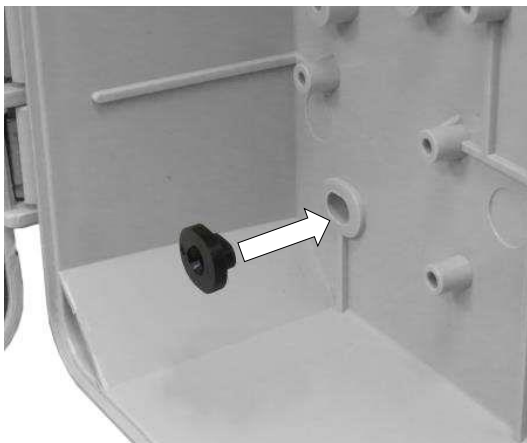


Screws with wall plugs

Rubber sealing washers



Drill locations X

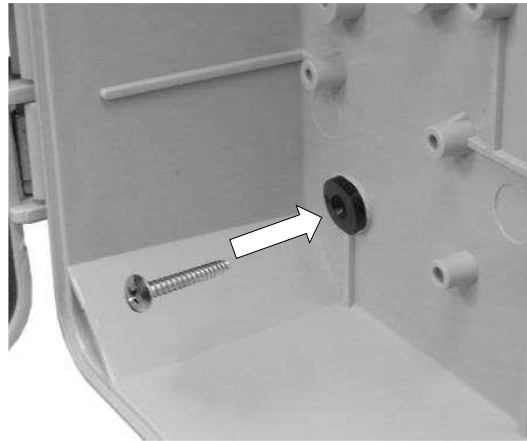


Step 3.

Place (4) Rubber Sealing washers into (4) mounting holes as shown.

Step 4.

Secure the enclosure to the wall using the (4) screws.



Step 5.

When mounting the enclosure, ensure the rubber sealing washers completely cover the enclosure mounting holes to provide a water-tight seal. Silicone sealant can also be added to enhance the seal.

Pole Mounting

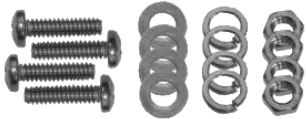
The enLink Air-X optional mounting kit contains the following parts:



Rubber Sealing Washers



Galvanized Steel Mounting Brackets



M6 Screws, Flat Washers,
Lock Washers and M6 Nuts



Stainless Steel Adjustable Band

Step 1.

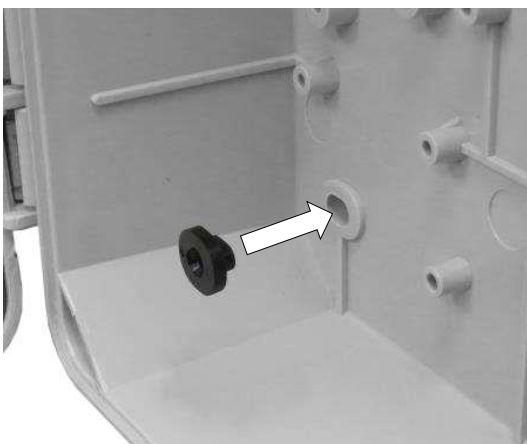
Using a 6.5mm / 1/4" drill bit, drill two holes into the rear of the enclosure at the locations shown.



Drill locations X

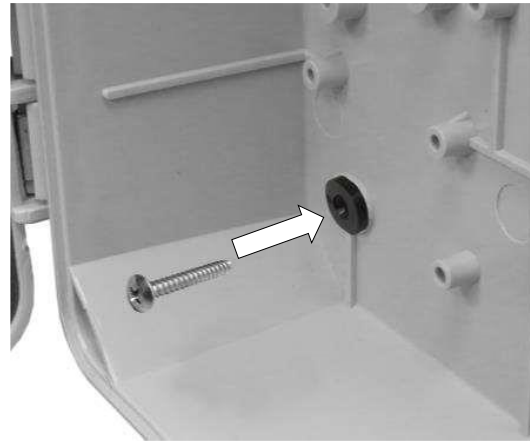
Step 2.

Place (4) Rubber Sealing washers into (4) mounting holes as shown.

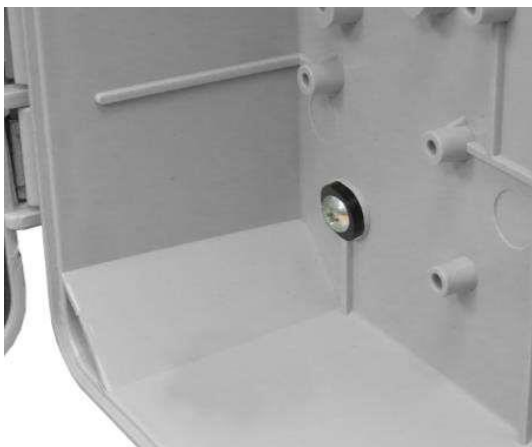


Step 3.

Secure the enclosure to the bracket using the (4) washers, lock washers and nuts.



Screws,



Step 4.

When mounting the enclosure, ensure the rubber sealing washers completely cover the enclosure mounting holes to provide a water-tight seal. Silicone sealant can also be added to enhance the seal.

Step 5.

Feed the (2) stainless steel adjustable bands through the mounting brackets as shown.

The adjustable bands included with in the kit can be used on poles ranging from 38mm to 200mm (1.5" to 8") in diameter.



Unit Dimensions

