![L-com an INFINITE brand logo]

18x16x10 Polycarbonate Weatherproof Outdoor IP24 NEMA 3R Enclosure, 120VAC Mount Plate Solid State Thermostat Fan Dark Gray

NEMA Enclosures Technical Data Sheet   NBPC181610-10FS

Features

- High-Impact, UV Resistant Polycarbonate (Dark Gray)
- Stainless steel latches with padlock eye
- NEMA Type 3R / IP24 rated
- Fully gasketed vented lid with filters & user installed wall mounting brackets

- Features aluminum mounting plate with surge protected duplex 120 VAC outlets & solid state controlled cooling system

Applications

- Remote Wireless LAN WiFi equipment installations
- Indoor and outdoor installations
- Rapid Deployment Installations

- Corrosive environments & hotspot applications
- Protection of equipment from theft or damage

Description

The box is a rugged weatherproof enclosure that is ideal for both indoor and outdoor applications. Constructed from High-Impact, UV Resistant Polycarbonate material that provides superior durability to impacts and ease of modification while maintaining minimum weight. It is well suited for high temperature or corrosive environments. The lid includes two vents with installed rain guards and filters. The included wall mount brackets come uninstalled and bagged with their hardware inside of the enclosure. Once the brackets are installed the enclosure can be mounted directly to any flat wall surface provided proper screws are used into secure studs. The brackets, once installed, also allow you to use our HGX-PMT pole mount kits. The lid features a non-metallic hinge system that allows for quick removal & can be reattached just as quickly without the need for any tools. The enclosure comes with a pair of stainless-steel latches with padlock eyes allowing you to secure the enclosure from tampering. The enclosure comes in a Dark Gray (Pantone 422C)

Mounting Plate

The aluminum mounting plate included with the NBPC181610-10FS features standard surge protected duplex 120 VAC outlets and a terminal block for easy hook up to externally provided line power. The enclosure also features holes for two N-Bulkhead lightning protectors or connectors, a grounding lug and cable conduit connector.

Cooling

To help ensure trouble-free operation of electronic equipment, proper operating temperatures inside an enclosure needs to be maintained. With the built-in dual cooling fans, internal temperatures can be better maintained. This model is ideal in hot environments. The fans are controlled by an integral high current solid state AC relay. The relay features Zero Cross Detection for EMI reduction.

For Cooling the NBPC181610-10FS includes our exclusive solid state temperature controller connected to dual 16.4W (32.8W total) fans. The high airflow, low noise fans used allow warm air to be actively pushed out the top vent while the second fan on the lower vent actively pulls in outside air into the enclosure. Filters for both ports prevent foreign objects or debris from entering the enclosure. The controller features improved temperature set point accuracy. The fans turn on when the internal temperature rises to 90° F (32° C) ±5° and turn off at 81° F (27° C) ±5°. The cooling fans do not require the use of any of the AC outlets, leaving them all available for your equipment.

The HGX-PMT series of pole mounting kits allow the populated enclosure to be securely mounted to a variety of different size poles.

Compatible versions include HGX-PMT13, HGX-PMT16, HGX-PMT28, HGX-PMT29, HGX-PMT30 & HGX-PMT33

Size

Outer Height	18.9 in	[480.06 mm]
Outer Width	16.8 in	[426.72 mm]
Outer Depth	11.3 in	[287.02 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 18x16x10 Polycarbonate Weatherproof Outdoor IP24 NEMA 3R Enclosure, 120VAC Mount Plate Solid State Thermostat Fan Dark Gray NBPC181610-10FS

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Inner Height	18.2 in	[462.28 mm]
Inner Width	16.2 in	[411.48 mm]
Inner Depth	9.7 in	[246.38 mm]
Weight	21 lbs	[9.53 kg]
Enclosure Material	Polycarbonate	

Environmental Specifications

Temperature Rating	-40° to 265° F [-40° to 129° C]
NEMA Rating	3R
Ingress Protection (IP) Rating	IP24

Compliance Certifications

UL Listed	No

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URL: https://www.l-com.com/nema-enclosures-18x16x10-polycarb-weatherproof-nema-3r-encl-120vac-mount-plate-solid-state-thermostat-fan-dark-gray-p.aspx

19.68 [499.9]

9.78 [248.4]

2X 316 SS LATCH, Ø 3/8" PADLOCK EYE

B

B

SECTION C-C

2X FAN

FAN CONTROLLER

18.91 [480.3]

18.16 [461.4]

16.88 [428.6]

2.10

7.76

16.91 [429.5]

16.16 [410.6]

14.88 [377.8]

12.00 [304.8] 2X MTG SLOTS

LID NOT SHOWN IN THIS VIEW FOR CLARITY

COMPONENT ON BACK OF PLATE DO NOT DRILL

1.60

.58

.95

2.85

1.25

.62

10.00 [254.0] 2X MTG HOLES

1/2" CONDUIT CONNECTOR

11.96 [303.7]

8.62 [218.9]

4.19 [106.3]

1.44 [36.5]

0

A

C

C

12.47 [316.8]

11.30 [287.0]

10.12 [257.0]

5.74 [145.7]

4.38 [111.1]

3.38 [85.7]

GROUND LUG

0

2X VENT COVER

2X FILTER

VIEW B-B

Ø.63 [5.9]

DETAIL A
2 PLACES

.58 [14.7]

Revisions table:

REV	DESCRIPTION	DATE	CHANGED BY
A	INITIAL RELEASE	05/15/2019	MM,MARTINEZ

L-com Global Connectivity

50 HIGH STREET NORTH ANDOVER, MA 01845

CATEGORY: ENCLOSURE

PRODUCT DESCRIPTION: ENCL PC 18x16x10" w/SS Dual-Fan 120VAC Mount Plate

APPROVALS		DATE
DRAWN BY	DJINN	05/14/2019
CHECKED BY	DFRISBELLO	05/14/2019
APPROVED BY	MM.MARTINEZ	05/14/2019

FSC/MO NO. 43321

DWG. NO. NBPC181610-10FS

REV. A

SIZE B

CAD FILE: NBPC181610-10FS.SLDDRW

SCALE: 1:6   SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [mm]

DIMENSIONAL TOLERANCES:
.X = ±.1 [2.54]
.XX = ±.01 [.25]
.XXX = ±.005 [.13]

ANGULAR TOLERANCES:
ALL ± 1°

CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY.
COLOR VARIATIONS MAY OCCUR

PROJECTION

NOTES:
1. ENCLOSURE MATERIAL-LIGHT GRAY (PANTONE 422C) HIGH-IMPACT, UV RESISTANT POLYCARBONATE.
2. TEMPERATURE RANGE: -40°F TO 265°F
3. CABINETS ARE MAINTENANCE FREE AND CORROSION RESISTANT.
4. SHALL BE PACKAGED AS PER L-COM SPEC
5. ALL DIMENSIONS FOR REFERENCE ONLY.