AIO® Basic Touch Controller (LTCH20)

Product Data Sheet



ephoca

CONTACT INFO

VIP Customer/Technical Support
Email: vip@innova.co
Phone: (212) 204-2700

DISCLAIMER

This documentation is intended for informational use only and should not be construed as a binding representation or contract. This documentation is provided "as is" without warranty of any kind, either express or implied. Ephoca and its affiliates disclaim all liability arising from the use or misuse of this documentation.

Illustrations may not be to scale and all information and dimensions stated herein are subject to change at any time at the sole discretion of Ephoca. Benefits described herein apply only to the extent that the product is installed correctly in the correct application and used for its intended purpose.

Ephoca is constantly innovating and improving its products and reserves the right to modify product design and specifications without notice and without incurring any obligations.

AIO® BASIC TOUCH CONTROLLER LTCH20

- Wired
- Wall mounted

⚠ WARNING

Only qualified professionals should install this equipment. Improper modifications by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the guide and on labels attached to the equipment.

Ephoca is the US subsidiary of INNOVA S.r.l
Via 1° Maggio, 8 – 38089 Storo (TN), Italy.

AIO® is a registered trademark of Ephoca in the United States and other countries.

Copyright © 2026 Ephoca. All rights reserved.

1. BASIC TOUCH CONTROLLER LTCH20 SUBMITTAL

Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By:	P.O. Number:

The wall-mounted Basic Touch Controller is simple and easy to use, with icons and text for each button. The sleek design and low profile easily blend into any decor. It features a simple on/off timer. The LED display dims after 15 seconds, making it ideal for any room, including a bedroom. For more information, see the AIO® Basic Touch Controller User Guide.

This controller requires a gateway board (included), which must be field-installed and connected inside the AIO® unit by an electrician or technician, and takes approximately 15 minutes to install.

1.1 Features

- Always-on backlit LED dims after 15 seconds of inactivity
- Touch controller
- Modes include: Cool, Heat, Dehumidify, and Fan Only
- Fan controls include: Low, Medium, High, and Auto
- Temperature setpoint in one-degree increments
- Timer for single on and single off
- Keypad lock
- Louver Control
- Sleep mode

1.2 General

- **Display**
  - Glass touch screen
- **Material**
  - Frame: Matte plastic
  - Cover: Glass
- **Connection Type**
  - Up to Shielded 4-conductor 18 AWG wire
  - Maximum 125’ run
- **Mounting**
  - Surface mounted
- **Connection Type**
  - Solid wire for less than 30’ run
  - Stranded shielded four-conductor 18 AWG wire for more than 30’ run
- **Warranty**
  - 2-year limited
- **Power Consumption**
  - 1 watt

1.3 Included

- LTCH 20 Basic Touch Controller
- Mounting screws

1.4 Dimensions

- Width: 3.41” (86.6 mm)
- Height: 3.35” (85.1 mm)
- Depth: 0.31” (7.9 mm)

Figure 1. Dimensions (Width & Height)

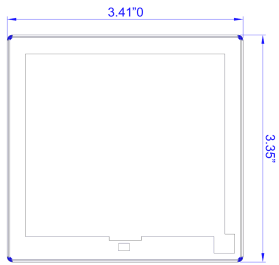
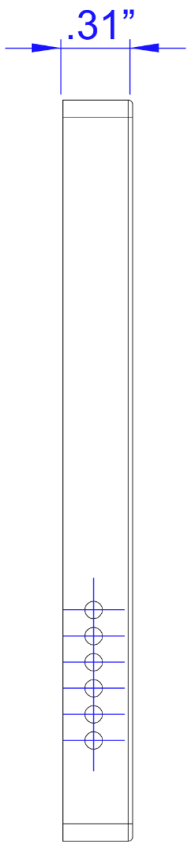


Figure 2. Dimensions (Depth)



1.5 Weight

- 0.5 lb (0.2 kg)

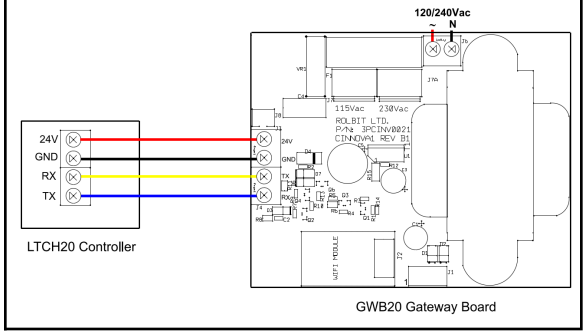
2. WIRING DIAGRAM

2.1 Standard Configuration

The rear of the TFT display is wired to the AIO® Gateway Board with four wires.

Standard Wiring Diagram LTCH20.png

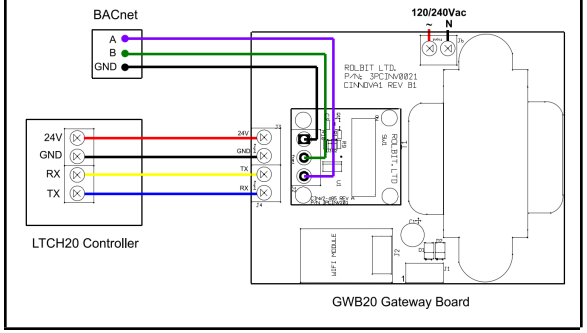
Figure 3. Wiring diagram showing the standard configuration.



2.2 Standard + BACnet Configuration

Standard + BACnet Wiring Diagram LTCH20.png

Figure 4. Wiring Diagram showing the standard + BACnet configuration.



3. WARRANTY

Controllers carry a two-year warranty.

AIO Warranty Terms and Conditions - 2026 - Eph...

With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance.

Ephoca is the US subsidiary of Innova SRL -
Via 1° Maggio, 8 – 38089 Storo (TN), Italy.

ephoca.com | 216-710-1000

MADE IN ITALY

© 2026 Ephoca. All rights reserved.

Revised August 20, 2026
AIO® Basic Touch Controller (LTCH20)
Product Data Sheet