

# T1L MEDIA ADAPTOR

The Honeywell 10BASE-T1L media adaptor is a converter that allows migrating 10BASE-T traffic to 10BASE-T1L. This enables the easy deployment of devices with an Ethernet network using a single twisted pair connection.



The 10BASE-T1L protocol allows devices to communicate on low-cost single twisted pair cable within an IP network. It reduces the cost of the installation of these devices. Through the Honeywell T1L media adaptor, T1L networks can be connected to main IP networks by converting one media type to another. An RJ-45 connector connects the 10BASE-T network cable to a switch or host device, and a three-way screw terminal connects the downstream T1L devices with the twisted pair cable. The two ports exchange data packets in both directions. The adaptor does not require an IP or MAC address and works out of the box with no configuration.

## FEATURES AND BENEFITS

Plug and play with zero setup.

Includes 110-230 VAC power supply with US, UK, EU, and Australian connectors.

Can operate from a separate power supply ranging from 5 to 24VDC.

Operates at 10 megabits per second.

Wall mounting or DIN rail (with optional Hammond Manufacturing 1427DINCLIP – obtain locally.)

## PRODUCT SPECIFICATION

### COMMUNICATION

#### 10BASE-T

10BASE-T Standard	802.3i-1990 (CL14)
Connection	RJ45, auto MDI-X
Cable Type	Cat 5e, UTP (unshielded twisted pair)
Distance	100 m (109 yds) maximum
Bus speed	10 Mbits/s

#### 10BASE-T1L

10BASE-T1L Standard	802.3cg-2019
Connection	Screw terminal, auto MDI-X
Cable Type	Single twisted pair
Distance	300 m (330 yds) maximum to Honeywell controller with failure-tolerant daisy-chain. 1000m (1100 yds) maximum to any other T1L device without daisy-chain.
Bus speed	10 Mbits/s

### ELECTRICAL

#### MEDIA ADAPTOR

Power Supply (DC)	5 to 24 VDC
Power Consumption (separate DC power supply)	For 5 VDC: 0.35 W For 24 VDC: 0.48 W
Terminal Size	Up to 2.5 mm <sup>2</sup> (14 AWG)

#### POWER SUPPLY

Power Supply (Mains)	90 to 264 VAC
Power Consumption (Mains)	For 230 V: 0.6 W

### WEIGHT AND DIMENSIONS

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Dimension (L x W x D)	Media Adaptor - 95 x 95 x 54 mm Power Supply - 99 x 51 x 20 mm
Weight	Media Adaptor - 72 g Power Supply - 67 g to 82 g, depending on connector choice.

### OPERATING ENVIRONMENT

#### MEDIA ADAPTOR

Ambient Operating Temperature	-40 to +60 °C
Ambient Operating Humidity	5 to 95 % RH (Non-condensing)
Storage Temperature	-40 to +85 °C

#### POWER SUPPLY

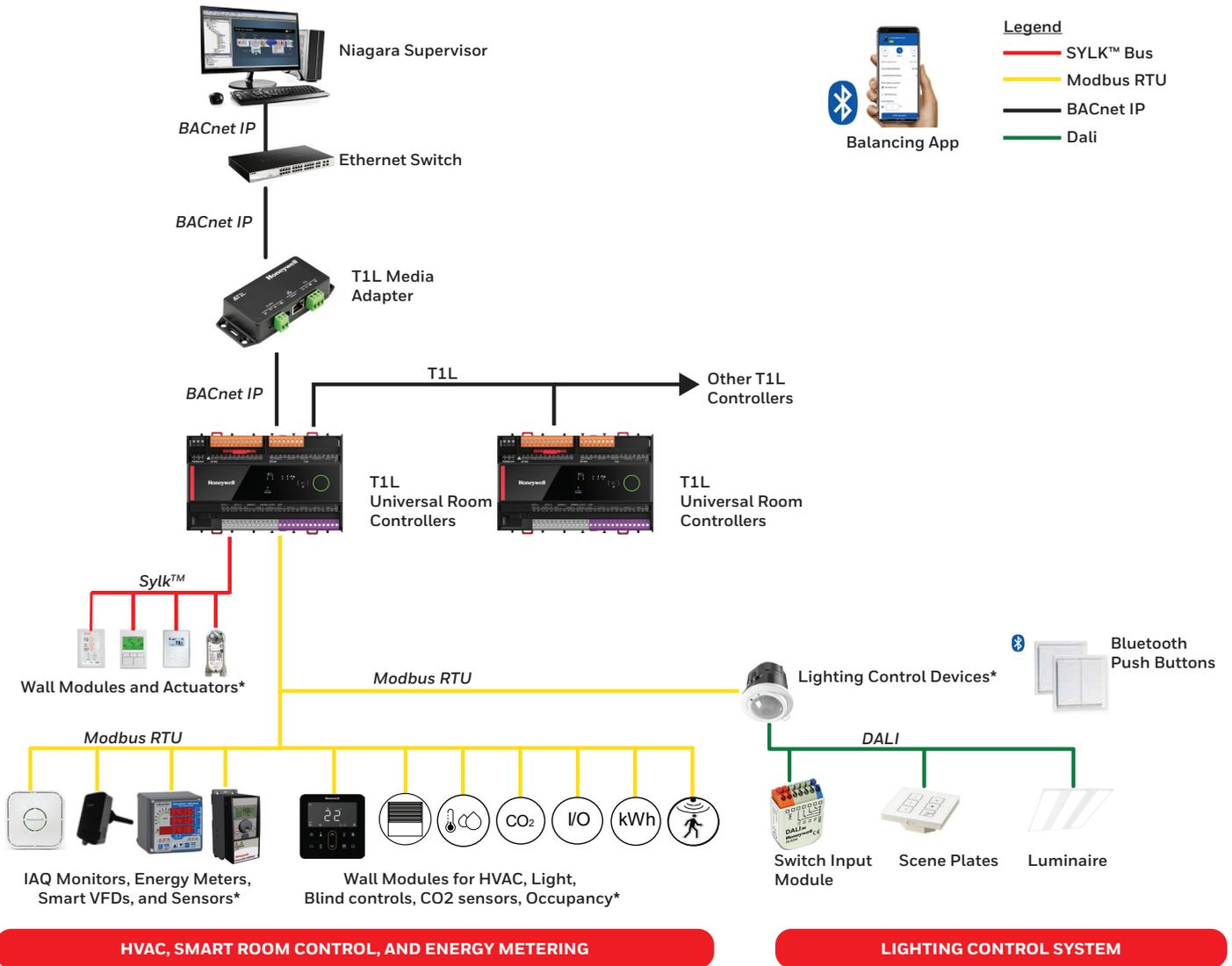
Ambient Operating Temperature	0 to +60 °C
Ambient Operating Humidity	5 to 95 % RH (Non-condensing)
Storage Temperature	-40 to +85 °C

### OTHER SPECIFICATIONS

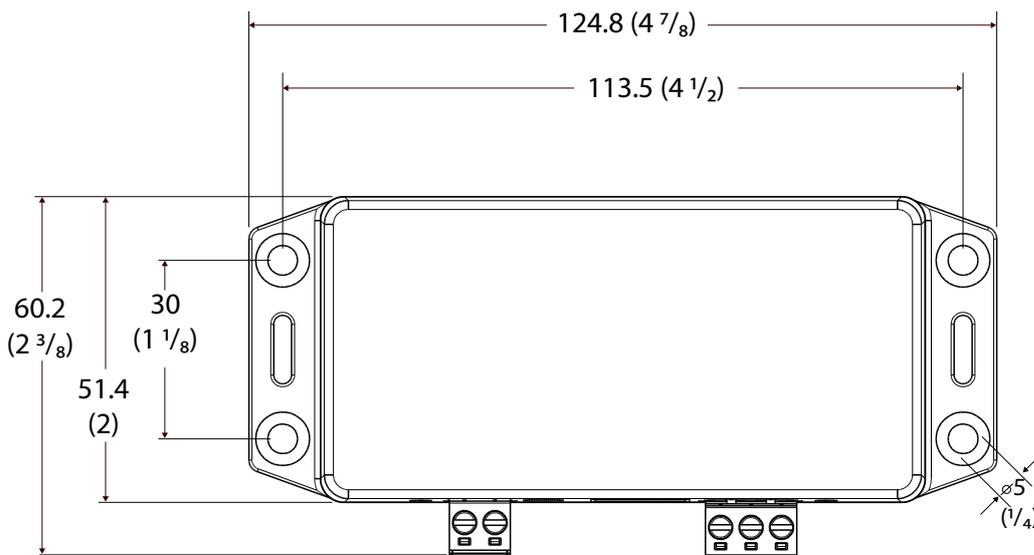
#### OTHER SPECIFICATIONS

IP Rating	Media Adaptor - IP40 Power supply - IP20
Terminal Connections	Rising Clamp, Screw Terminal
Standards and Approvals	Media Adaptor: UL/cUL listing in file # E529106, CE Marked + RoHS, UKCA Marked
Material of Casing	Flame retardant polycarbonate (PC)

# TYPICAL SYSTEM OVERVIEW



## DIMENSIONS



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