

# 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. Using existing or new 2-wire cables saves installation costs. 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 24 VDC.	Operates at 10 megabits per second.	Wall mount or DIN rail (with optional Hammond Manufacturing 1427DINCLIP – obtain locally.)
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## PRODUCT SPECIFICATION

### COMMUNICATION

10BASE-T	
Standard	802.3i-1990 (CL14)
Connection	RJ45, auto MDI-X
Cable Type	CAT 5e, UTP (unshielded twisted pair)
Distance	328 feet (100 meters) maximum
Bus speed	10 Mb/s

10BASE-T1L	
Standard	802.3cg-2019
Connection	Screw terminal, auto MDI-X
Cable Type	Single twisted pair
Distance	<ul style="list-style-type: none"><li>984 feet (300 meters) maximum to Honeywell controller with failure-tolerant daisy-chain.</li><li>3280 feet (1000 meters) maximum to any other T1L device without daisy-chain.</li></ul>
Bus speed	10 Mb/s

### OPERATING ENVIRONMENT

MEDIA ADAPTOR	
Ambient Operating Temperature	-40 to 140 °F (-40 to 60 °C)
Ambient Operating Humidity	5 to 95 % RH (Non-condensing)
Storage Temperature	-40 to 185 °F (-40 to 85 °C)

POWER SUPPLY	
Ambient Operating Temperature	32 to 140 °F (0 to 60 °C)
Ambient Operating Humidity	5 to 95 % RH (Non-condensing)
Storage Temperature	40 to 185 °F (-40 to 85 °C)

### WEIGHT AND DIMENSIONS

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Dimension (L x W x D)	<b>Media Adaptor</b> : 5 x 2.02 x 2.37 inches (124.8 x 51.4 x 60.2 mm)
Weight	<b>Media Adaptor</b> : 0.158 lbs. (72 grams) <b>Power Supply</b> : 0.147 lbs. to 0.180 lbs. (67 to 82 grams), depending on connector choice.

### ELECTRICAL

MEDIA ADAPTOR	
Power Supply	5 to 24 VDC
Power Consumption	<b>5 VDC</b> : 0.35 W, <b>24 VDC</b> : 0.48 W
Terminal Size	Up to 2.5 mm <sup>2</sup> (14 AWG)

POWER SUPPLY	
Power Supply	90 to 264 VAC
Power Consumption	<b>230 V</b> : 0.6 W
Output Voltage	<b>5 Volts</b>

### OTHER SPECIFICATIONS

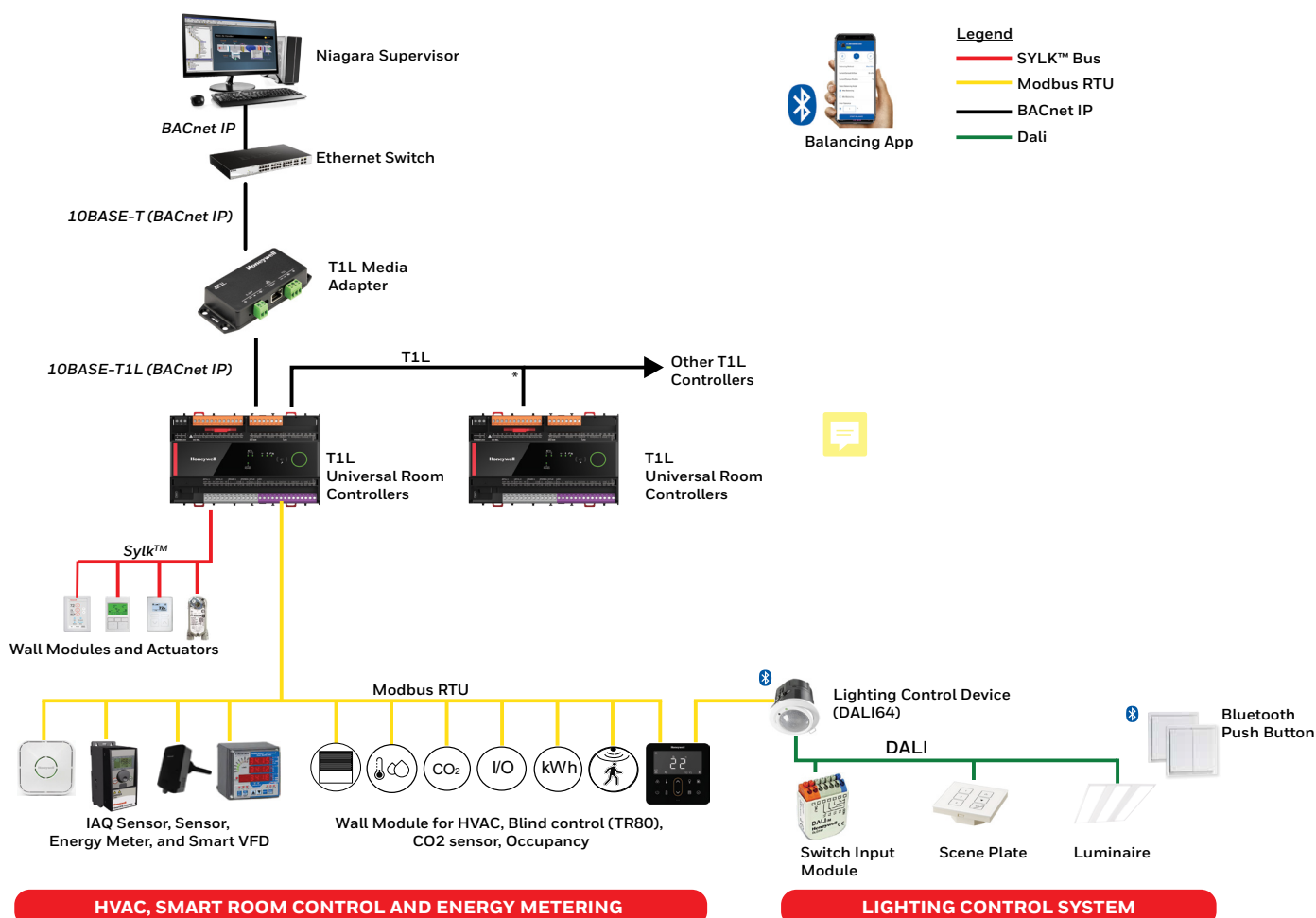
OTHER SPECIFICATIONS	
Terminal Connections	Rising Clamp, Screw Terminal
Material of Casing	Flame retardant polycarbonate (PC)

### CERTIFICATIONS

OTHER SPECIFICATIONS	
IP Rating	<b>Media Adaptor</b> : IP40 <b>Power supply</b> : IP20
Standards and Approvals	<b>Media Adaptor</b> : UL/cUL listing in file # E529106, CE Marked + RoHS, UKCA Marked

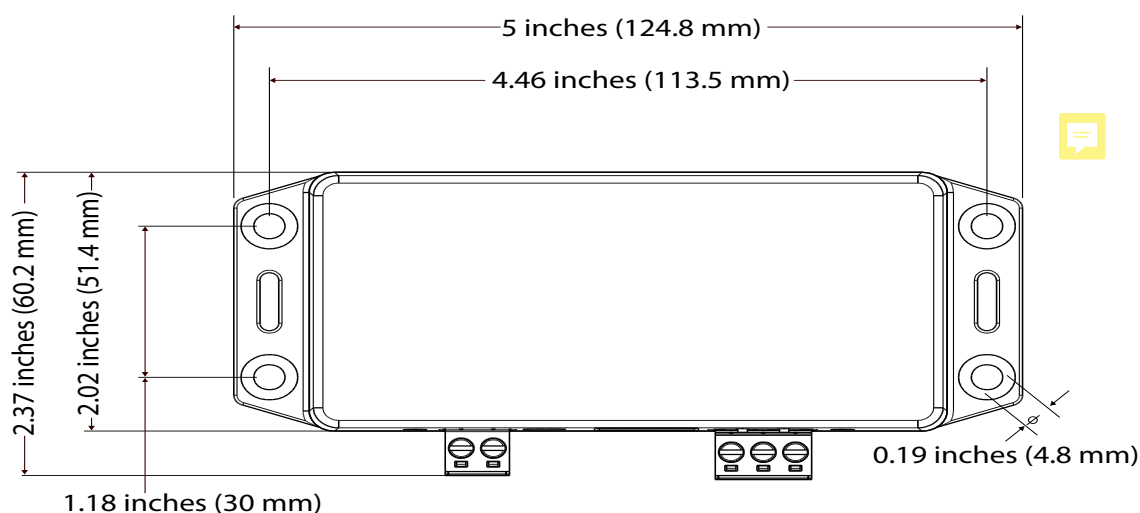
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# TYPICAL SYSTEM OVERVIEW



NOTE: \* indicates if a controller in the chain fails the communication continues.

## DIMENSIONS



All the dimensions are in inches (mm).

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31-00581-01 | Rev. 01-23

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