



# HON-9000 IO Remote Modules

IO-R-16 AND IO-R-34

## SPECIFICATION DATA



## PRODUCT DEFINITION

IO Remote module is part of Honeywell's portfolio of hardware, software and tools designed for remote monitoring and control applications that enables end-to-end automation and device-to-enterprise integration. IO R allows the HON-9000 to interface directly with simple non-intelligent inputs and outputs remotely located up to 4,000 feet from the controller. The connection is established via an industry-standard RS 485 multi-drop communications bus. Multiple IO R devices can be utilized on a single controller, providing 250+ IO points on a single controller.

## SPECIFICATIONS

**WEBS-N4:** Requires WEBS-N4.3 or later

**WEBS-AX:** Requires WEBS-AX 3.8u3 or later

### IO-R-16

- 8 Universal inputs: Type 3 (10k) thermistors, 0-100K ohm, 0-10VDC, 0-20 mA with external resistor
- 4 Relay outputs (Form A contacts, 24VAC @ .5 amp rated)
- 4 Analog outputs (0-10VDC)
- Powered from IO-R-34
- Connected to HON-9000 remotely over a shielded RS485 bus

### IO-R-34

- 16 Universal inputs: Type 3 (10k) thermistors, 0-100K ohm, 0-10VDC, 0-20 mA with external resistor
- 10 Relay outputs (Form A contacts, 24VAC @ .5 amp rated)
- 8 Analog outputs (0-10VDC)
- Powered from a 24VAC/DC source
- Can power up to 4 IO-R-16 modules
- Connected to HON-9000 remotely over a shielded RS485 bus

## EXPANDABILITY

### MAXIMUM EXPANSION

- (8) IO-R-34s
- or
- (16) IO-R-16s

### POWER

One IO-R-34 can power four IO-R-16 modules

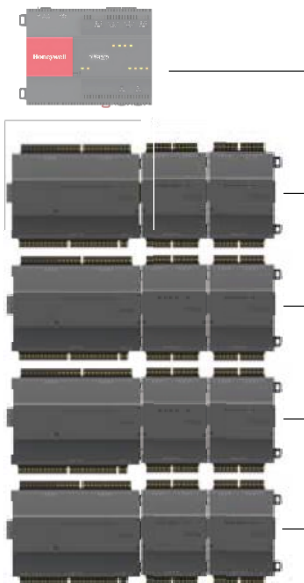
### COMMON CONFIGURATIONS

Maximum configuration  
for 2 panels

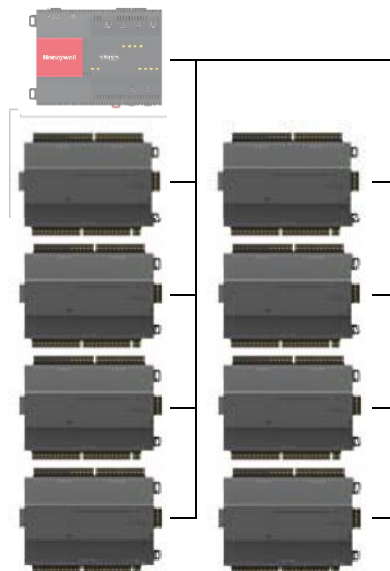


Shown with maximum of 4 IO-R-16s  
per IO-R-34

Maximum configuration  
for 4 panels



Maximum configuration  
for 8 panels



## AGENCY CERTIFICATIONS

- UL 916
- C-UL
- CE EN 61326-1:2013
- RCM
- FCC part 15, class b

- RoHS2
- REACH
- WEEE
- China ROHS
- Open Energy Management Class 2

## ENVIRONMENTAL SPECIFICATIONS

**Operating temperature:** -20 to 60 °C

**Storage temperature:** -40 to 85 °C

**Humidity:** 5–95% — Non condensing

**Shipping & vibration:** ASTM D4169, Assurance Level II

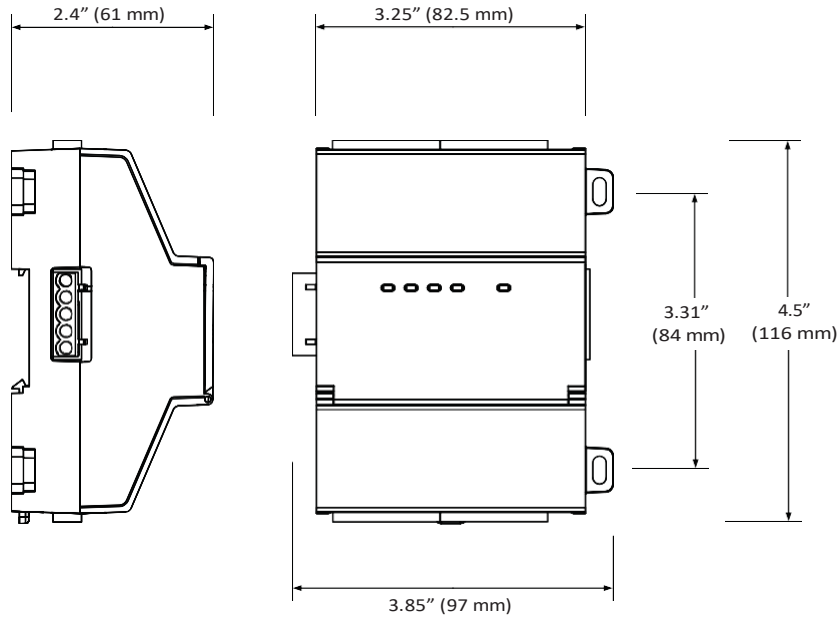
**MTTF:** 10 years+

# MOUNTING & DIMENSIONS

The HON-9000 IO modules support mounting on EN50022 standard 7.5mm x 35mm DIN rail or panel mounting.

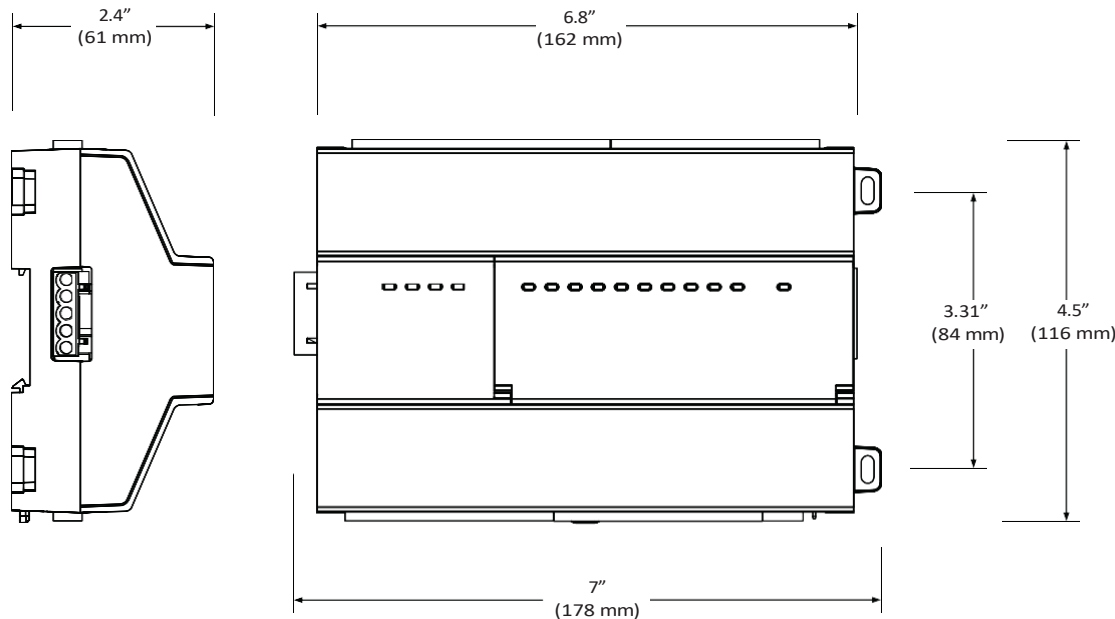
## IO-R-16

82.5mm (w) x 116mm (h) x 61mm (d) (3.25 in x 4.5 in x 2.4 in)



## IO-R-34

162mm (w) x 116mm (h) x 61mm (d) (6.8 in x 4.5 in x 2.4 in)

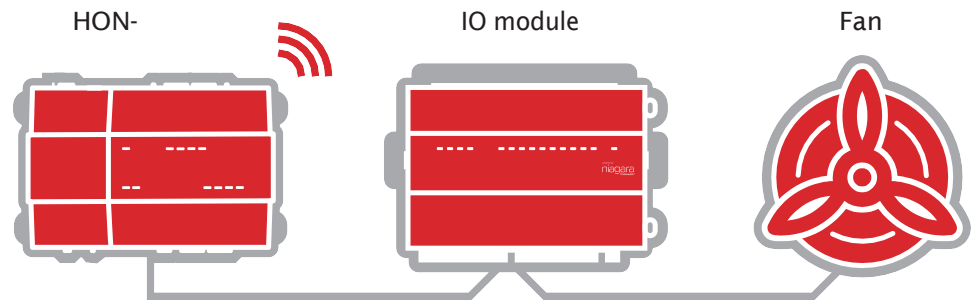




ORDERING INFORMATION

| Part number | Description                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------|
| IO-R-16     | 16 Point IO Module. Powered by IO-R-34. Connected to HON-9000 remotely over RS485.                                      |
| IO-R-34     | 34 Point IO Module. Powered by 24VAC. Capable of powering 4 IO-R-16 modules. Connected to HON-9000 remotely over RS485. |

NIAGARA FOR REMOTE MONITORING APPLICATIONS



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