

**MODEL T9032NS****AMBIENT ANALYSIS SENSOR COLLECTOR**

The Model T9032NS Ambient Analysis Sensor Collector is a unit especially designed to interface with up to 32 IED 540S Ambient Sensors. This device is designed to mount in a 19-inch equipment rack/cabinet, taking up only 1 rack unit (RU) of space or 1.75" of vertical space. All cooling is back to front, so no additional vertical space is required in the rack for cooling. The mainframe has removable rack mounting ears, which may alternately be placed near the bottom of the mainframe for ease in mounting this unit on a wall, such as in a telephone closet, or on the back for rear rail mounting reinforcement.

The collector has connections for up to up to 32 IED 540S Ambient Sensors, and it supplies the 27 Volts of dc power required by the sensors. The collector samples the readings from all sensors several times per second and sends the readings to an IED T9160 Titan Series mainframe to perform the Ambient Analysis calculations. The T9032NS collector links to the T9160 mainframe via Ethernet or (future) CAN bus connection.

The collector is powered in a number of ways such as Power over Ethernet (PoE) from an IEEE 802.3af compatible Ethernet switch, a 48 Vdc local power supply, or (future) power supplied over the CAN bus from another Titan frame.



Figure 1 - IED T9032 Ambient Analysis Sensor Collector  
Front View



Figure 2 - IED T9032 Ambient Analysis Sensor Collector  
Rear View



# SPECIFICATIONS

## STANDARDS UTILIZED

1. Full-Duplex Operatons . . . . . IEEE 802.3x
2. Fast Ethernet, 100Mbps . . . . . IEEE 802.3u  
The 528 Series specifically uses 100Base-TX
3. Data Terminal Equipment Power . . . . . IEEE 802.3af  
via Media Dependent Interface (PoE)

## CONNECTORS

1. 540S Sensors . . . . . 32 plug-in lugless compression-type screw terminal blocks  
3-wire type
2. Ethernet . . . . . Modular 8 (RJ-45)
3. Auxiliary (48V) Power . . . . . plug-in lugless compression-type screw terminal block
4. CAN bus . . . . . plug-in lugless compression-type screw terminal block

## CONTROLS & INDICATORS

1. Ethernet connection and data LEDs . . . . . 2

## POWER REQUIREMENTS

1. 48 V (PoE or auxiliary connector)  
with no sensors connected . . . . . 7 W  
with 32 540S sensors connected . . . . . 10 W

## MECHANICAL

1. Size, overall  
Width . . . . . (48.3 cm) 19" (with ears)  
Height . . . . . (4.4 cm) 1.75"  
Depth . . . . . (43.2 cm) 17"
2. Mounting Depth (rack depth) . . . . . (44.2 cm) 17.4"  
For proper fan operation add a minimum of 2" (5.1 cm) clearance
3. Weight . . . . . (3.2kg) 7 lbs
4. Cooling . . . . . 1 fan
5. Mounting Ear Location Options . . . . . 3 (front, rear, bottom)

## ENVIRONMENTAL

1. Operating Temperature Range . . . . . (0 °C - +50 °C) +32 °F - +122 °F  
Applicable for typical voice paging and background music applications.
2. Storage Temperature Range . . . . . (-40 °C - +70 °C) -40 °F - +158 °F

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