



Packet Power[®] Environmental Node



Product Specification

Introduction

The **Packet Power Environmental Node (EN)** offers precise and cost-effective temperature and humidity monitoring. Wireless communication between EN devices makes installation easy.

Overview

The Packet Power EN provides wireless temperature and humidity tracking capabilities in a small, easily installed device. It can gather temperature data from up to seven monitoring points and humidity at one point per EN device. Multiple Packet Power EN devices can be used within a facility.

The Packet Power EN leverages the full capabilities of the Packet Power Data Mesh - Packet Power's wireless data collection infrastructure. The Packet Power EN instantly begins sharing information across the Data Mesh wireless network with other EN devices and any Packet Power Smart Power Cables installed in the facility. Information from all monitoring points is then made available to Packet Power's local software applications or cloud-based Energy Analysis System.

Key features

- High precision measurement ($\pm 1^\circ \text{C}$ and 1% relative humidity)
- Map temperature reading to facility layout diagrams
- Generate alerts if temperature becomes too high or too low
- Track hundreds of monitoring points per facility in single or multiple facilities
- Access information in real time via web portals and facility maps
- Detailed, easily customized reports show long-term trends

Configuration Options

The Packet Power EN can be used in any combination of the following configurations:

- Single Rack: sensors at the top, middle and bottom of both front and back of a rack
- 2-Rack: three sensors in front of each of 2 adjacent racks
- 7-Rack: one sensor per rack in the front of 7 racks in a contiguous row

Operating Environment

Indoor use only. Powered by two AA batteries or via the optional 110–250V AC adapter. Each EN device will link to other nearby Packet Power monitoring devices over distances of 50 to 200+ feet per node.



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Summary

- Each unit monitors temperature and humidity at up to seven points
- Leverages the Packet Power Data Mesh wireless network for easy deployment
- Scales to hundreds of monitoring points and multiple facilities
- Enables real-time facility heat maps
- Fully integrates with Packet Power's Smart Power Cables and software offerings

Overall Solution Components

- Smart Power Cables embed energy monitors in power cables and record detailed power usage in real time
- Fail-safe design ensures continuous power flow
- Wireless design for easy data gathering

Smart Power Cables



- Wireless mesh network of monitoring devices
- USB Gateway stick transforms any PC into a Data Mesh communication gateway
- Gateways gather data from thousands of power cables or EN devices
- Energy usage data is transmitted to analysis service

Data Mesh Wireless Network



- Complete Energy Analysis System offers cloud-based reporting and analysis applications, secure data storage and fast, simple installation
- Access data via reports, web portals or XML
- Can also simply provide data via SNMP to an existing local monitoring application.

Monitoring and Analysis

