
Optima®

AP400
SNMP ALARM PANEL

# OPTIMA AP-400 SNMP ALARM DISPLAY PANEL

The Optima AP-400 is an intelligent, compact, Power-over-Ethernet (PoE) annunciator panel engineered to provide real-time, high-visibility situational awareness for critical network infrastructure. Featuring a vibrant, 4-inch square multi-touch IPS display running a local-first embedded interface, the AP-400 serves as a dedicated hardware command outpost for telecom hubs, data centers, and unmanned remote sites. By operating completely independently of cloud dependencies, it ensures absolute data sovereignty and local-first reliability.

## KEY FEATURES

**Autonomous SNMP Triage Engine:** Eliminates the need for constant dashboard polling. The AP-400 sits directly on your local Ethernet network, listening for incoming SNMP Trap PDUs from up to 8 remote telemetry units (RTUs), processing and categorizing up to 2,000 concurrent alarms instantly.

**Dynamic Risk-Scoring Matrix:** Features an advanced triage calculation algorithm that evaluates real-time risk based on alarm severity and outage duration. Critical outages are prioritized automatically, tracking site health via an integrated visual urgency bar that hits 100% when a critical failure remains unaddressed for 2 hours.

**Industrial Touch Interface with Modern Design:** Built on a zero-latency hardware graphics pipeline, the 720x720 multi-touch screen employs a sleek, glassmorphic layout. Operators can fluidly drill down into comprehensive alarm summaries, toggle per-severity filters, and modify community strings or network profiles on the fly.

**High-Output Audible Annunciation:** Features a 2W internal audio transducer to ensure operators are alerted immediately when critical events hit the queue, utilizing distinct high- and low-pitch frequency patterns to differentiate between cleared zones and active faults.

**Seamless, Ruggedized Deployment:** Designed with a space-saving wedge chassis, the unit fits perfectly onto desktops or mounts cleanly to standard electrical wall boxes. With native Class 2 PoE support, power and 10/100 Fast Ethernet data are carried over a single CAT5 cable, keeping deployment footprints minimal.

## TYPICAL APPLICATIONS

**Telecom Central Offices & Unmanned Shelters:** Provides an immediate, physical warning system for remote engineering teams tracking environmental faults, generator statuses, or fiber breakages mapped by onsite T:LAN RTUs.

**Network Operations Centers (NOC):** Functions as a dedicated, line-of-sight desktop terminal alongside massive monitoring arrays, ensuring tier-1 engineers isolate critical infrastructure metrics instantly without searching through dense application windows.

**Industrial Facility Control Rooms:** Monitors localized automation hardware, mechanical faults, and power distribution parameters across segmented operational technology (OT) networks safely and reliably.

## PHYSICAL

| | |
|---|---|
| Dimensions (HxWxD) | 89mm x 89mm x 54mm (Wedge-shaped chassis), (3.5" x 3.5" x 2.1") |
| Weight | 150g (0.33 lbs) |
| Mounting | Wall mount or Desktop orientation |

## POWER

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|---|---|
| Input Requirements | PoE IEEE 802.3af (Class 2 alternative power mapping) |
| Power Consumption | 1.5W (Minimum / Idle) to 2.0W (Maximum audio/ backlight load) |
| Interface Connector | Integrated into Ethernet jack (RJ45) |

## ENVIRONMENTAL

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|---|---|
| Operating Temp | 0 °C to +50 °C (32 °F to 122 °F) |
| Storage Temp | -20 °C to +70 °C (-4 °F to 158 °F) |
| Humidity Limits | Up to 80% relative humidity (non-condensing) |

## INTERFACE & CONNECTIVITY

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|---|---|
| Network Type | 10/100 Mbps Fast Ethernet Port with Native PoE Extraction |
| Connector Physical | Standard Shielded RJ45 |
| Recommended Wiring | Category 5 (CAT5e) or better twisted-pair cabling |

## ALARMS PROCESSING

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|---|---|
| Protocols Support | SNMPv1/v2c (Autonomous Traps & Reliable InformRequests) |
| Transaction Core | Automated Application-Layer GetResponse (ACK) Generation |
| Network Stack | UDP/IP (IPv4), DHCP Client, SNTP Network Uptime Sync |
| Site Capacity | Monitors up to 8 distinct T:LAN RTU Telemetry Nodes |
| Alarm Capacity | Tracks up to 250 active sub-zone alarms per individual site |
| Real-Time Filters | Per-Severity Categorization (CRITICAL, MAJOR, MINOR, WARNING, INFO) |
| Sorting Engine | Highest Severity Triage Core / Most Recent Active Stack Matrix |
| Triage Metrics | Leader Site Risk, Cumulative Duration, Real-Time Urgency Score |
| Triage Calculation | Exponential risk score optimization, 1 x CRITICAL outage for 2h = 100% Urgency |

## USER INTERFACE

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|---|---|
| Display Technology | 4.0-Inch High-Fidelity IPS Capacitive Multi-Touch Screen Panel |
| Display Resolution | 720 x 720 true pixels, Full 16-Bit Color Space |
| UI Framework | High-Performance Local-First Glassmorphic Embedded Layout Engine |

## AUDIO INTERFACE

| | |
|---|---|
| Internal Speaker | 2W High-Output Internal Audio Transducer |

## ORDERING INFORMATION

| | |
|---|---|
| Product SKU | 1014-A011004A |
| Product Description | Optima AP-400 SNMP Alarm Display Panel |

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