

DESIGNED FOR MISSION-CRITICAL TELECOMMUNICATION INFRASTRUCTURE

Model: KNRAP1



Designed for Mission-Critical Telecommunication Infrastructure

Overview

The KNTECH KNRAP1 is a robust, industrial-grade remote alarm indicator panel designed specifically for government and enterprise PABX systems. Compliant with HK and international standards, it provides immediate visual and audible alerts for critical system failures (Major/Minor Alarms), ensuring rapid response and high system availability.

Built with a premium SUS304 stainless steel faceplate and vandal-resistant components, the KNRAP1 is engineered for durability in 24/7 operational environments such as Building Management Offices (BMO), Security Control Rooms, and Data Centers.

Key Features

- ✓ Rugged Design: High-quality Brushed Stainless Steel (SUS304) faceplate, resistant to corrosion and wear.
- ✓ Standard Compliance: Fits standard BS 86mm x 86mm back boxes for easy wall-mount installation.
- ✓ Dual Alert System: Equipped with high-brightness LEDs (Green/Red) and a powerful Piezo Buzzer (>75dB).
- ✓ Intelligent Logic: Integrated MCU/Relay logic supports "Alarm Mute" function – silencing the buzzer while keeping the Red LED lit until the fault is cleared.
- ✓ User Controls: Vandal-resistant metal buttons for System Test and Audio Mute.

Technical Specifications

Feature	Specification
Model	KNTECH KNRAP1

Dimensions	86mm (H) x 86mm (W) x 30mm (D)
Material	SUS304 Brushed Stainless Steel Faceplate (1.2mm thick)
Input Power	12V - 24V DC / 48V DC (Optional)
Visual Indicators	Normal: High-intensity Green LED (Metal Housing) Alarm: High-intensity Red LED (Metal Housing)
Audible Alarm	Internal Piezo Buzzer, Sound Level > 75dB @ 1 meter
Control Buttons	TEST: Momentary Metal Push Button (Check LED/Buzzer health) MUTE: Momentary Metal Push Button (Silence buzzer only)
Logic Operation	Auto-latching Mute circuit; Auto-reset when alarm clears
Connectivity	Industrial 8-Core Interface (Standard Cat5e/Cat6) distance up to 1000 meters
Mounting	Flush or Surface Mount (Fits standard UK/HK 1-gang box)
Operating Temp	-10°C to +60°C
Relative Humidity	10% - 95% (Non-condensing)

Operation Logic

1. Normal State: Green LED ON, Red LED OFF, Buzzer OFF.
2. Alarm State: When PABX sends a fault signal (Dry Contact Close):
 - o Green LED turns OFF.
 - o Red LED turns ON (Flashing/Steady).
 - o Buzzer sounds continuously/intermittently.
3. Mute Action: Operator presses the MUTE button:
 - o Buzzer turns OFF (Acknowledged).
 - o Red LED remains ON (visual reminder) until the PABX fault is resolved.
4. Recovery: When fault clears, system auto-resets to Normal State (Green LED ON).

Visual Indicator Logic Table

System Status	LED Color	LED Pattern	Buzzer Status	Meaning
Normal	Green	Steady ON	OFF	System Healthy
Minor Fault	Red	Steady ON	ON (Mutable)	Non-critical / Warning
Major Fault	Red	Flashing	ON (Mutable)	Critical Failure / Urgent

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