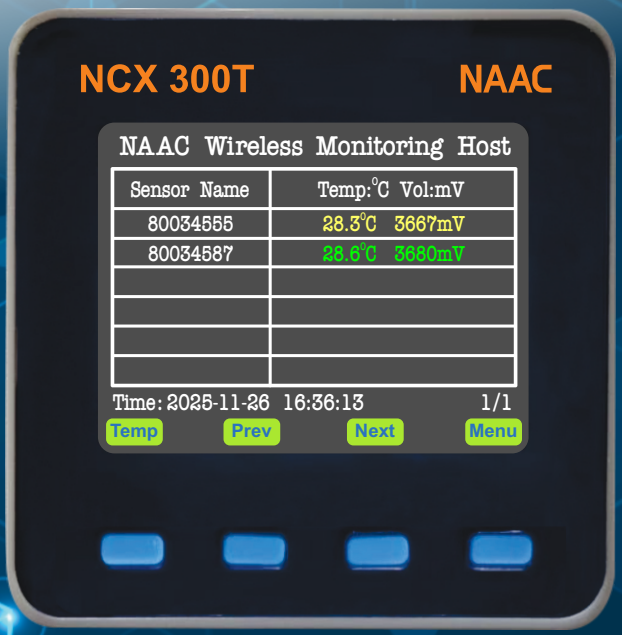
NAAC CONNECTAX™

CONNECT SYSTEMS, DATA AND PEOPLE



Wireless Busbar Temperature Monitoring System

NECPL

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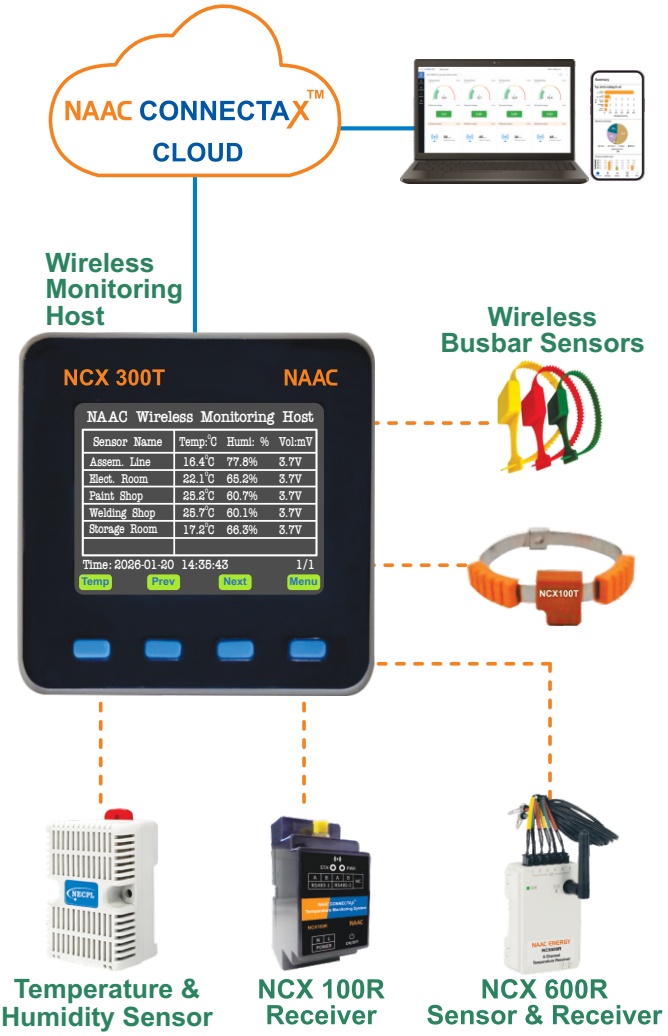
NAAC CONNECTAX™ TEMPERATURE MONITORING SYSTEM

Overview

The **Wireless Busbar Temperature Monitoring System** is an advanced, IoT-enabled solution designed to continuously track the temperature of electrical busbars in real time. It enhances safety, prevents overheating, and eliminates the need for manual thermal inspections. Ideal for industries, panels, substations, and power distribution networks.



Key Features

- **Wireless Temperature Sensors**
  - Battery-powered, maintenance-free sensors
  - Long-range wireless communication
  - High-precision temperature sensing up to 125°C or more
- **Real-Time Monitoring & Alerts**
  - Continuous 24/7 temperature tracking
  - Instant alerts via SMS, email, or App notification
  - Early detection of hotspots, overload conditions, and loose connections
- **Central Gateway Unit**
  - Collects data from multiple sensors
  - Ethernet / Wi-Fi / 4G connectivity options
  - Multi-panel and multi-busbar support
- **Advanced Analytics Dashboard**
  - Live temperature graphs
  - Trend analysis and predictive maintenance
  - Configurable reporting (daily / weekly / monthly)
- **Easy Installation**
  - Clamp-type or magnetic sensor mounting
  - No wiring required
  - Suitable for retrofit and new installations
- **Industrial Grade Reliability**
  - EMC / EMI-resistant design
  - IP-rated sensors for harsh environments
  - Designed for high-temperature switchgear and busbar chambers

Benefits

- Prevents electrical failures caused by overheating
- Reduces downtime and improves safety
- Supports preventive and predictive maintenance
- Eliminates manual IR thermography
- Enhances electrical asset life & reliability

Technical Specifications

Sensor Type	Wireless temperature node
Measurement Range	-40°C to +125°C / +150°C
Resolution	0.1°C
Accuracy	±1°C
Service Life (Current Powered Variant)	10 Years
Battery Life (Battery Powered Variant)	3 Years
Battery Type	High Performance Lithium-Ion (Battery Powered Variant)
Communication	LoRa / RF
Radio Frequency	433 Mhz
Transmission Range	300 Metres (open range)
Protocols	MODBUS TCP / IP, RS485, MQTT
Power Supply (Receiver)	110V - 230V DC
IP Rating of Sensors	IP65 / IP67
Software	Cloud / On-Premises