REIMAGINING YOUR IDEAS WITH A VISION

SAAR System Solutions

COMPLETE CONTROL FOR A SMARTER, GREENER TOMORROW.

# SMART HVAC CONTROL.
# INTELLIGENT ENERGY MANAGEMENT.

AI-Powered Building Management for modern cooling infrastructure.




Higher Energy Efficiency | Intelligent Automation | Reliable & Scalable | Designed for Real-World Use




## ONE CONTROLLER. COMPLETE HVAC CONTROL.

- Complete AHU control and monitoring
- Wi-Fi and Ethernet connectivity with server
- Analog and Digital I/O for accurate sensing and control
- Direct VFD Integration
- RS485 communication
- Designed for AHUs, chillers, cooling towers and pumps

## INTELLIGENT ENERGY SAVING

- Power saving modes can schedule AHU operations up to one month.
- Ultra Power Saving Mode automatically adjusts chilled water valve levels and VFD fan speeds.
- 35 – 45% electricity savings.
- Digital twin functionality for 3D representations

## POWERFUL I/O & PROTECTION
## SPECIFICATIONS OF THE CONTROLLER

- 3 Relay Port (10A / 240V AC) (10A / 50V DC).
- Input Power Ports
  - 4A / 24V DC/AC.
  - 8A / 12V DC.
  - 0.4A / 100-240V AC.
- POE (Power over ethernet port for Communication).
- 2 Analog (IP (0 - 10V).
- 3 Digital/Binary I/P.
- 2 Analog (IP (0 - 20mA) / (0 - 10V).
- 5 Digital/Binary I/P.
- 2 Analog (IP (0 - 20mA) / (0 - 10V).
- Inbuilt Wi-Fi for Communication.
- NTC 10K, 24K, P1100, PT100 temperature sensor support.
- Overvoltage Protection up to 280V AC, Undervoltage Protection up to 100V AC.
- Reverse Voltage Protection.

## CONNECTED BY DESIGN
## COMMUNICATION PROTOCOLS

- Inbuilt Wi-Fi for communication.
- Inbuilt Ethernet Support for communication.
- 4G LTE, ModBus RTU, ModBus IP, BACnet/IP, Https, MQTT Support.




## ENGINEERED FOR REAL-WORLD HVAC

- Tested and validated with Danfoss, INVT, Servotec and Armstrong VFDs.
- Compatible with Voltas and Daikin chillers.
- Works seamlessly with AHUs, chillers, cooling towers and pumps.
- Built for reliable performance in demanding industrial and commercial environments.



## PROVEN DEPLOYMENTS & WORKING WITH

भारतीय प्रौद्योगिकी संस्थान जम्मू
INDIAN INSTITUTE OF TECHNOLOGY JAMMU
Berger Paints Paint your imagination
BHIMA FARM VILLE भिमा फार्म व्हीले
SMARTWORKS
DELHI METRO
Radisson BLU
JW MARRIOTT. HOTELS & RESORTS
nexus ELANTE
DLF
SERVOTEC smart power solutions
GreenIOTtech.ai

**APPLICATIONS** | AHUs | Chillers | Cooling Towers | Pumps | VFDs | Institutional & Commercial Buildings

**Build smarter. Cool smarter. Save energy.** | SAAR System Solutions Pvt. Ltd.

# SMART HVAC
# BUILDING AUTOMATION

Intelligent control • Connected systems • Efficient cooling

**SAAR System Solutions Pvt. Ltd.**

HVAC CONTROL // CHILLER SYSTEMS // SMART BUILDINGS

## RECOGNITION & STARTUP IMPACT



Startup showcase with national leadership

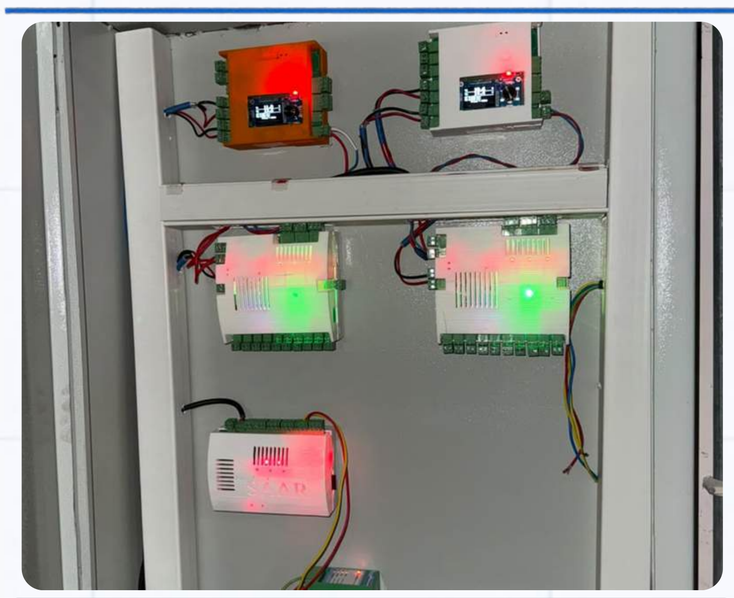



Recognition at J&K Startup Summit



Startup achievement & acknowledgment

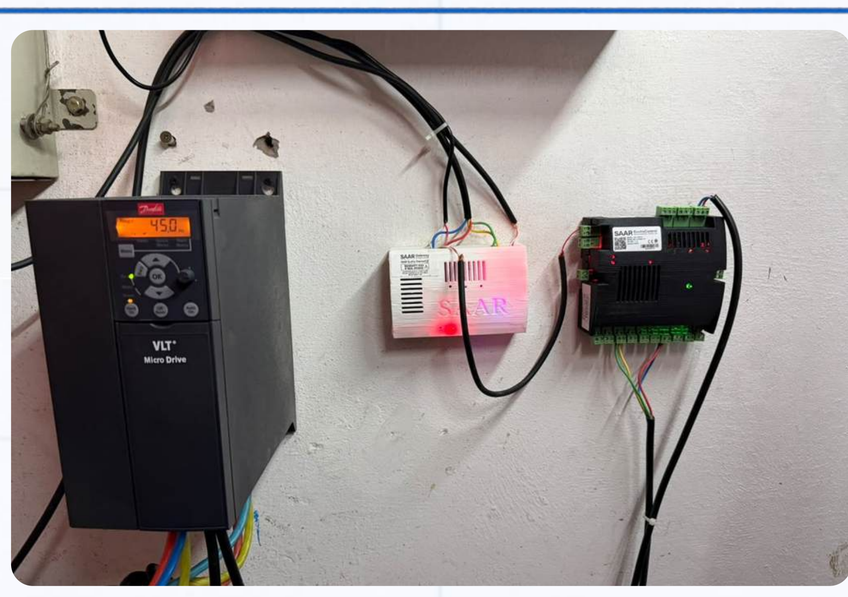
## DEPLOYMENTS IN ACTION



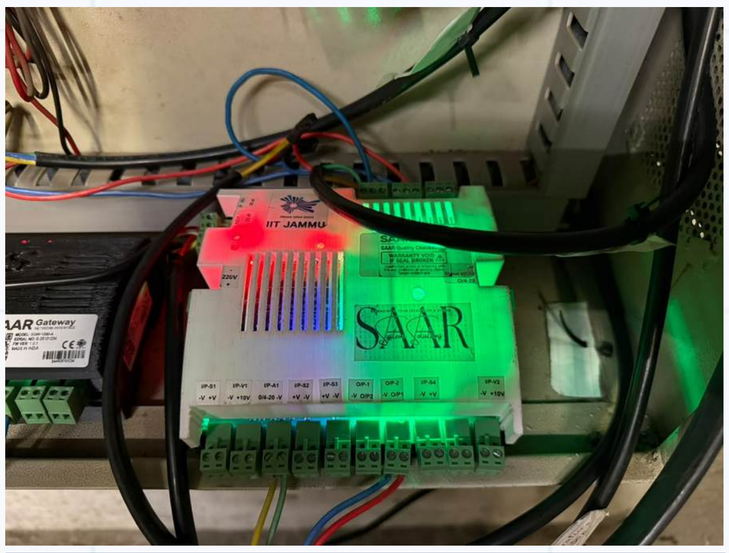
Deployment at IIT Jammu



Deployment at Elante, CHandigarh



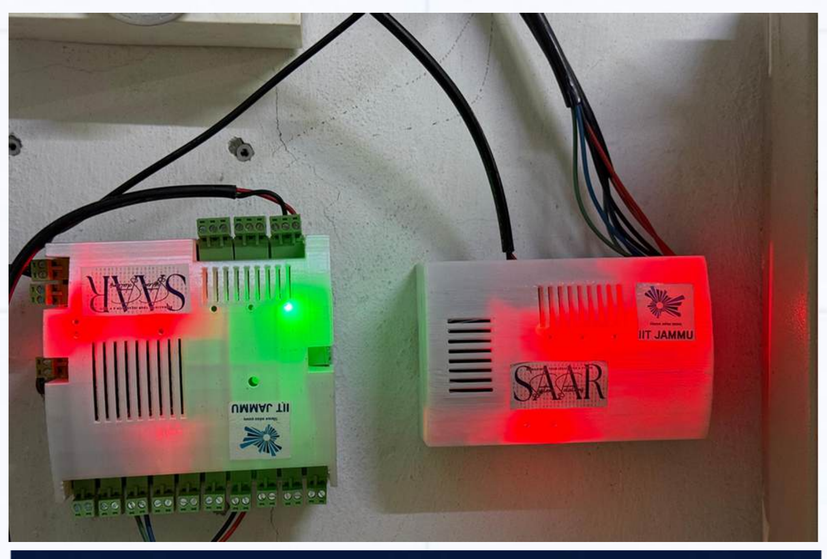

Deployment at Radisson Blu, Dwarka




Deployment at JW Marriott, Delhi



Deployment at Chenani, J&K




Deployment at Smartworks, Noida




3D Digital Twin of HVAC Plant




3D Digital Twin of HVAC Plant

## CONNECT WITH SAAR

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## PROVEN DEPLOYMENTS & WORKING WITH

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