



Centralized Control & Monitoring Interface Suite



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This document is of a commercial nature and the characteristics reflected are not binding for specific projects. The characteristics of the product will be specified in the final documentation of each project.



CENTRALIZED CONTROL & MONITORING INTERFACE SUITE

CENTRALIZED MULTI-LEVEL SUPERVISORY PLATFORM FOR SOLAR TRACKERS

The Centralized Control & Monitoring Interface Suite is an advanced supervisory Human-Machine Interface (HMI) platform designed to enhance operational visibility and fleet-wide control of solar tracker systems- from subfield level to full photovoltaic plant scale.

The platform delivers real-time monitoring and centralized command capabilities, enabling operators and asset managers to:

- Monitor and control all trackers across the plant
- Manage trackers individually or in logical groups
- Execute plant-wide, electrical subfield-level, or communication subfield-level commands.
- Remotely activate or deactivate controllers as part of protection strategies
- Access a centralized alarm management system
- Monitor environmental sensors in real time
- Manage manual operation modes for selected controllers when required
- Utilize time-based color-coded visualization aligned with each Tracker's actual position, enabling instant identification of angular deviations
- Obtain a comprehensive real-time overview of the operational status of all trackers through an intuitive visual interface
- Improve uptime and reduce O&M intervention time

Designed for seamless integration with plant SCADA systems, the HMI Suite supports utility-scale solar projects across global markets. Instead of accessing individual gateways for each subfield, operators manage the entire tracker fleet through a single supervisory interface — improving visibility, reducing operational complexity, and accelerating decision-making.

Role-Based Access & Operational Governance

The platform integrates configurable role-based access management to ensure secure, structured, and traceable operations.

Manual Controller Management

In addition to automated control strategies, the platform allows authorized users to:

- Switch individual controllers to manual mode
- Execute targeted operational commands
- Perform maintenance-level positioning
- Temporarily isolate specific tracker groups
- Restore automatic operation when required

The result: greater operational clarity, faster diagnostics, and reduced O&M workload.

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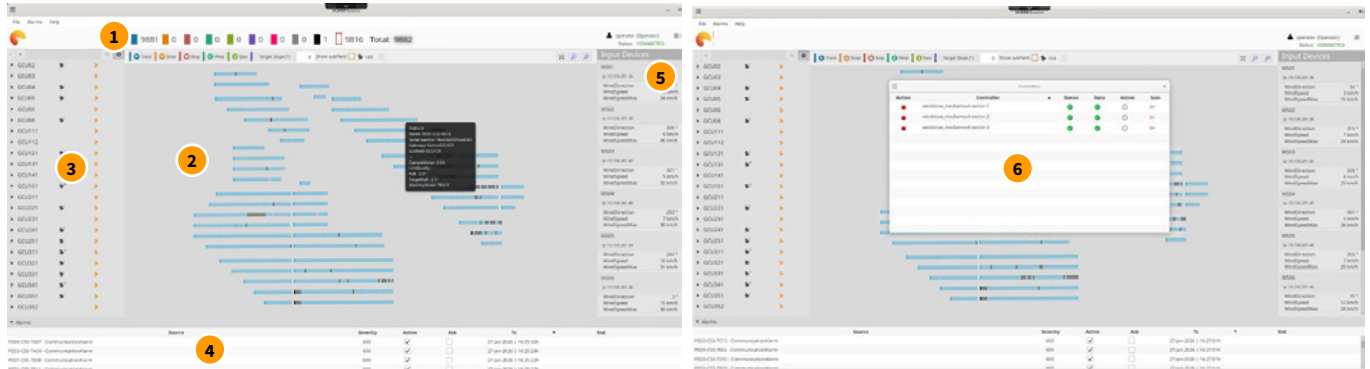
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SYSTEM INTERFACE ARCHITECTURE



The main interface is structured into six functional panels:

1. Installation Overview Panel

Displays general plant information, operational status, and system configuration.

2. Plant Layout Window

Provides a complete visual distribution of trackers across the plant, enabling immediate identification of operational status and alarms.

3. Subfield & GCU Management Panel

Centralized access to all subfields, enabling activation, deactivation, and localized supervisory control.

4. Alarm Panel

Consolidates all plant-level alarms into a structured interface for rapid fault identification and response.

5. Sensor Panel

Monitors temperature, wind speed, wind direction (anemometer), and additional sensors, supporting automated protection strategies.

6. Controller Management Panel

Dedicated interface for controller supervision and manual operation management, providing structured oversight of all field controllers without requiring direct access to the gateway.

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