

Info Sheet

Digital Direct Control (DDC)

Smart building control, simplified.

1. Overview

IPU SA's **Digital Direct Control (DDC)** systems are purpose-built for smart building applications that require centralized automation and fine-tuned environmental control. Acting as the brain behind HVAC, lighting, and other infrastructure subsystems, DDC panels deliver precise real-time control with high flexibility, scalability, and integration capabilities.

These systems are ideal for modern commercial, healthcare, and institutional buildings looking to increase energy efficiency, improve occupant comfort, and streamline facility operations.

2. Key Features

- Software-configured control of HVAC, lighting, and system zones
- Customizable logic for scheduling, occupancy, and load balancing
- BACnet, Modbus, and LonWorks protocol compatibility
- Embedded web-based user interface (optional)
- Remote diagnostics and real-time alerts
- Integration-ready with BMS, SCADA, and energy management platforms
- Expandable I/O configurations to support future needs

3. Applications

- Commercial and government buildings
- Hospitals and medical facilities
- Data centers and telecom hubs
- Educational institutions
- Smart campuses and infrastructure zones

4. Integration Capabilities

- Seamless communication with PLC, BMS, and SCADA systems
- Works with HVAC, sensors, occupancy detectors, dampers, actuators, etc.
- Cloud-ready and mobile-friendly interface options
- Easily integrated into wider energy management systems

5. Certifications & Standards

- Designed per IEC standards
- Complies with local authority specs for building automation
- Built using OEM-certified components (e.g., Schneider, Johnson Controls)