

Info Sheet

Programmable Logic Control – PLC

Flexible automation built for industrial intelligence.

1. Overview

IPU SA's **Programmable Logic Control (PLC)** systems are engineered to automate complex industrial processes with high precision, safety, and real-time responsiveness. Designed for environments where downtime is not an option, our PLC platforms provide centralized logic control across machinery, utilities, and infrastructure systems.

Our solutions support leading PLC/PAC technologies with wide compatibility across I/O devices, protocols, and network layers — built for seamless integration into your broader control and monitoring ecosystem.

2. Key Features

- Modular architecture with high-performance CPUs
- Real-time logic execution & I/O scanning
- Multi-vendor compatibility (Siemens, Schneider, Rockwell, etc.)
- Redundancy and failover support
- Built-in cybersecurity and remote diagnostics
- Scalable from small equipment control to full plant automation
- Advanced protocol support (Modbus, Profibus, Ethernet/IP, OPC UA, etc.)

3. Applications

- Industrial automation lines
- Water treatment and pumping stations
- HVAC and BMS control
- Power distribution and load management
- Renewable integration systems
- Packaging, manufacturing, and material handling

4. Integration Capabilities

- Seamless interfacing with SCADA, HMI, and cloud-based dashboards
- Supports analog, digital, and serial interfaces
- Ready for remote monitoring and IIoT applications
- Fully integrable with IPU SA's MCC, synchronization, and energy management systems

5. Certifications & Standards

- IEC 61131 programming compliance
- EMC and industrial safety rated
- Tested per OEM and project-specific standards