

8-Channel HART Gateway: PLX51-HART-8I

Connect more HART devices to your control system without multiplying your hardware.

Product Bulletin



Process plants run on HART data — flow, pressure, temperature, density — but getting that information into your control system has always meant adding gateways, adding complexity and accepting gaps. The PLX51-HART-8I connects up to 64 HART devices across 8 isolated channels to your PLC or SCADA system over EtherNet/IP or Modbus, so you can see more of your process with less hardware on the rail.

- **Consolidate HART connectivity:** 8 isolated channels support up to 64 HART devices, replacing multiple single- or 4-channel gateways in a single unit.
- **Keep your network resilient:** dual Ethernet ports with Device-Level-Ring support provide high-availability connectivity back to PLCs and SCADA systems.
- **Works where your process runs:** Class I Div. 2 hazardous location approvals, an operating range of -20 to 65°C and a compact DIN rail form factor mean it fits your environment.
- **Fits your existing Rockwell architecture:** auto-generated L5X files import directly into ControlLogix and CompactLogix processors, so there's no manual controller configuration on the front end.

Key features

- Supports 8 isolated HART channels (HART versions 5, 6 and 7)
- Communicates via EtherNet/IP, Modbus TCP and Modbus RTU
- Dual Ethernet ports with Device-Level-Ring support
- Flexible analog input ranges: 0-20 mA, 4-20 mA, 0-10 Vdc
- Built-in webserver for system and field device diagnostics
- Device Type Management for FDT-based configuration
- Configuration security with identity-aware access control
- Simple Network Time Protocol and IEEE 1588 Precision Time Protocol support
- Certifications: UL, ODVA, CB Safety, ATEX, RoHS/CE, REACH



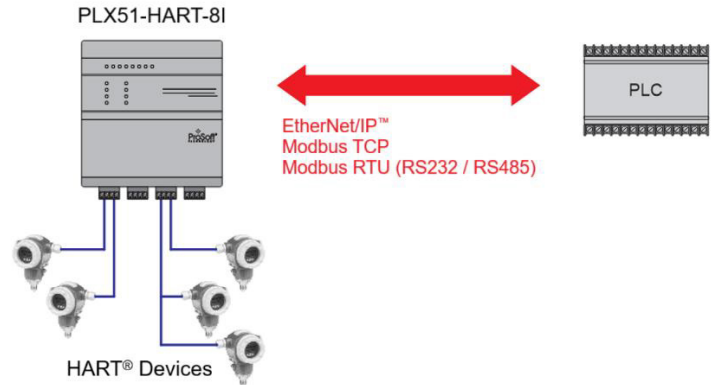
The **PLX51-HART-8I** mounts on a standard DIN rail and connects up to 64 HART field instruments across 8 isolated channels to your PLC or SCADA system, reducing the gateway count in your panel and giving your control system a complete picture of process performance.

Your benefits

Process plants run millions of HART-enabled instruments, and most of them are still giving up their data one manual read at a time. The PLX51-HART-8I closes that loop. By bringing HART diagnostic and process data directly into your control system, it gives instrumentation and controls engineers continuous visibility into flow rates, pressures, temperatures and device health — without touching the wiring already in place. Maintenance teams catch meter drift before it costs a batch or triggers a shutdown. Operators tune process setpoints from the control room instead of the field. And one PLX51-HART-8I replaces what would otherwise require two 4-channel gateways — fewer devices to buy, commission and maintain, smaller footprint on the rail.

Applications

The PLX51-HART-8I fits anywhere HART field instruments need to talk to a modern control network. In oil and gas, it brings flow meter data from wellheads and pumping stations into SCADA systems for production monitoring and compliance reporting. In food and beverage, it connects flow meters and sensors that track ingredient volumes and batch parameters to quality control systems — catching meter drift before it costs you a batch. In water and wastewater treatment, it connects level sensors, flow meters and chemical dosing instrumentation to the control system, supporting regulatory reporting and reducing the manual monitoring burden on operators. It also serves power generation facilities where HART devices monitor turbine and boiler instrumentation.



Markets

The PLX51-HART-8I is built for process automation environments with established HART instrumentation networks. Primary markets include oil and gas, food and beverage, water and wastewater treatment and power generation. System integrators specifying Rockwell Automation-based architectures and plant engineers in industries where sensor density is high and unplanned downtime is costly will find it fits their requirements. Existing PLX51-HART-4I users have a direct migration path when their applications need more channels, network redundancy or an expanded protocol stack.



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