

Features

The ART-DI-16P is a digital input signal extender supporting both NPN and PNP connections for industrial applications.

It communicates via Modbus TCP (Ethernet) and Modbus RTU (RS485) and includes a web-based configuration interface for real-time device settings, monitoring, and diagnostics.

- Supports communication via Ethernet (Modbus TCP)
- Supports RS-485 communication (Modbus RTU)
- Web-based Configuration & Monitoring Interface
- Built-in 16 digital input channels, supporting both NPN and PNP signal types
- Integrated input pulse counter for each digital input channel
- Independent counter reset via Modbus register or Web UI
- Real-time I/O and counter status monitoring
- LED indicators for Power, Communication, and I/O status

Applications

- Industrial Monitoring
- Machine Integration
- PLC / SCADA Gateway
- Remote I/O Controller
- Data Acquisition System
- Production & Event Counting Systems



Specifications

Supply Voltage

9 V DC to 32 V DC at 50 mA maximum

Supply Current

Active Comms at 30 V DC: 4.5 mA

Supply Protection Circuitry

Transient voltage protection

Connections

Terminal Block Plug, 2 Position, 3.81 mm pitch

Communication Interfaces

Ethernet: Modbus TCP Server

RS-485: Modbus RTU Master / Slave

HTTP: Web Configuration & Monitoring Dashboard

Construction

Connector Body: ABS Plastic

Indicators

Green LED (RUN): Device operating (flashing)

Green LED (TCP): Modbus TCP communication active

Green LED (RTU): Modbus RTU communication active

Amber LED (IO): Digital input activity

Red LED (POWER): Power supply status

Operating Conditions

Operating Temperature: 0 °C to +60 °C

Relative Humidity: Up to 85% RH (non-condensing)

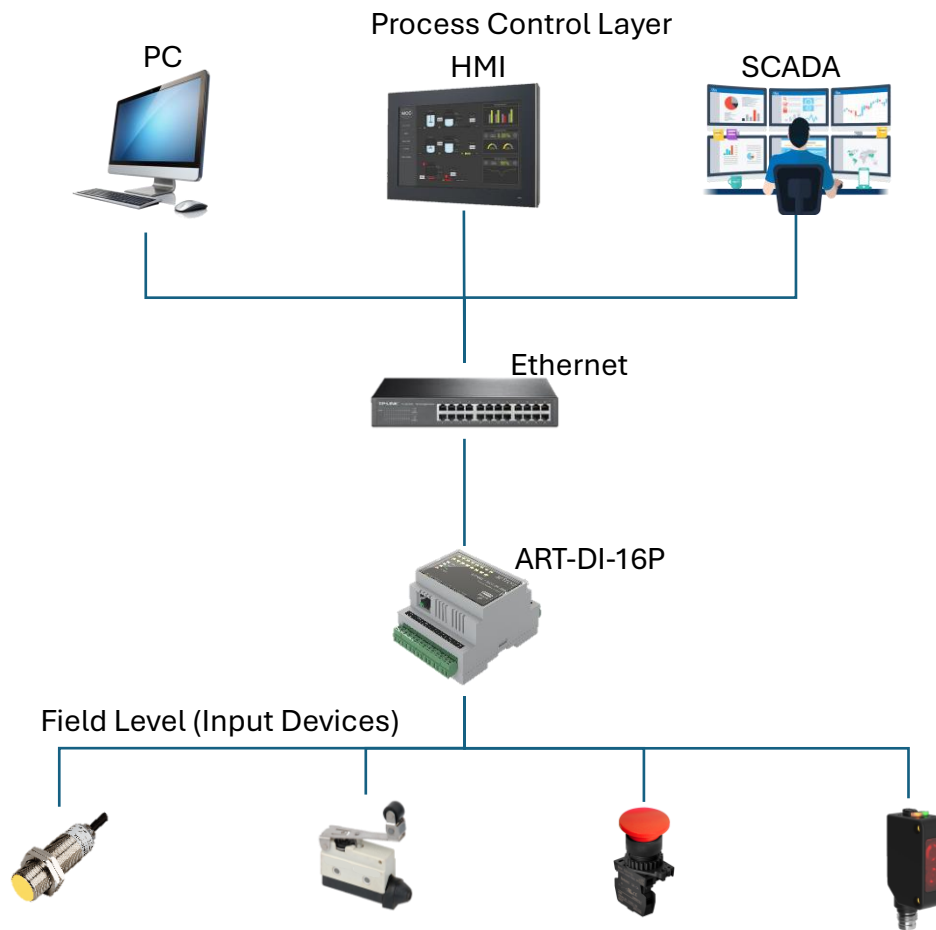


WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table. Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply. Supply wiring leads < 24 AWG shall not be spliced.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	1.0	30	0.5

Simple Architecture



Dimensions

All measurements are listed in millimeters.

