



8204

4-Channel Scanner/ DAQ Module

The most compact Multichannel Indicator with Alarms



8204 Scanner offers multi-channel monitoring with advanced functions and simple programming features in very compact 1/8 DIN size for monitoring process values and protection application.

8204 has flexible configuration option for 4 channels accepting universal input and 4 relays to serve various applications. The unit has separate Numeric displays for CH. No. and Process Value. All Configuration and Calibration can be done from front panel keypad.

8204 has 4 relays with full mapping and logic flexibility. User has facility to program alarm, trip set-points and logic individually or group wise. Channels can be configured up to 4 groups with one relay per group; 2 groups with 2 relays per group or 1 group with 4 relays per group. One discrete LED is provided per relay for indication.

8204 has built-in Isolated RS485 serial communication port with Modbus RTU protocol and provides optional analog retransmission output with Max/Min to further interface with PLC/DAS/DCS/SCADA.

The 8204 supports both physical analog inputs (from sensors like thermocouples, RTDs, current, or voltage) and serial inputs via Modbus RTU over RS-485. Its analog outputs can be controlled by internal logic (Physical AI Values, Modbus AI Values) or Modbus commands over RS485. The relay outputs can be activated based on process values (Physical AI Values, Modbus AI Values) or direct commands from Modbus over RS485. This makes the 8204 ideal for tasks like alarm control, process switching, and automation. With the ability to handle both physical and serial I/O at the same time, it easily fits into SCADA systems, PLCs, and other control setups.

Features

- Universal input for each Analog Input
- Compact 1/8 DIN mounting
- Front Panel Programming
- Fast Sampling rate with instantaneous relay action
- Four relays for alarm/trip
- RS485 Serial communication port for remote monitoring
- Comprehensive Alarm/Trip logic programming
- Multiple Levels of configuration and password protection
- Retransmission output (Optional)
- Multi-mode Analog Input: Physical Sensor Input and Serial Input via Modbus RS485
- Modbus compatible DO & AO control Operation

Applications

- Generator Monitoring and Protection
- Monitoring of Air compressor, pump, transformers, fans and blowers DG temperature monitoring
- Motor protection: Winding & Bearing temperature
- Water and Waste-Water remote monitoring
- Electrical Sub-station monitoring
- Drying Ovens
- Fermentation Processes
- Flow Monitoring
- Retorts and Cooking Processes
- Heat Treatment: to achieve desired result of hardening or softening material
- Power Monitoring
- As a SCADA RTU
- Metal and mining applications
- Machine condition monitoring
- As a distributed I/O module for interface with PLC/DCS/DAS etc

