

3401 Controller



3401 Controller: *Data Acquisition System Distributed System component*

Features and Benefits

Combine data acquisition and alarming in single unit:

- Eliminate extra equipment and increase process reliability.
- Document data monitoring results graphically and in Excel compatible files.
- Single vendor makes product support easy.

Modular system components:

- Get only the features you need for today's requirements.
- Add functionality later for future requirements.

Built-in high speed, modern, standard Ethernet with TCP/IP:

- Get the data much faster and more reliably than with serial links.
- Isolated Ethernet eliminates ground loops and problems.
- Connect into your corporate network for maximum efficiency.

Universal High Resolution Isolated Analog Inputs (16 bit):

- Thermocouple, RTD, Voltage/Current, Frequency, High Speed Counter.
- Isolated inputs provide stable and highly accurate readings.

High Resolution Isolated Analog Outputs (16 bit):

- Up to 18 isolated analog outputs (6 @ 16 bit, 12 @ 12 bits).
- Retransmit parameters with high accuracy.

Up to 6 Flex I/O Points:

- Frequency inputs (0 – 500kHz).
- High speed pulse counting.

32 Digital Inputs (24Vdc):

- Monitor low speed pulses (< 50 hertz).
- Monitor contact closures.

32 Digital Outputs (70ma @24Vdc):

- Use as alarm outputs to drive relays.
- Enable/Disable other equipment based on sensor alarms.

Overview

The 3401 is a modular system that combines temperature monitoring, alarming, and data acquisition in one package.

The 3401 is a pre-configured series 3400 unit. For more information on the series 3400 hardware platform, please consult the series 3400 data sheet.

The 3401 can monitor and alarm on up to 30 sensor analog inputs (T/C, RTD, voltage/current) 6 Flex I/O points (frequency inputs, high speed pulse counting) and also up to 32 digital inputs (lower speed pulse counting, contact closures).

Each I/O point has its own alarm limits and the alarm outputs can be attached to any of the 3401's 32 Digital Outputs (70ma @ 24Vdc sinking).

Combine the 3401 data acquisition and alarming unit with the 3400 Controller unit to Control and Monitor up to 60 sensor inputs.

Modern communications capabilities (Ethernet/TCP-IP along with high-speed serial ports) provide the 3400/1 multiple ways to integrate into your factory network or communicate to other control devices.

MDE's SuperView software package makes it easy to configure, monitor, log data, create recipes, customize and network multiple 3401 units.

SuperView provides system monitoring/ supervision from a local PC or via the Internet.