

Datascan Analog Measurement Processors 7320 & 7321

General Description

The Datascan 7300 series is a series of intelligent distributed input/output modules designed for real time measurement, data collection and communication. Ideal for factory industrial and scientific applications, the Datascan 7300 combines the cost saving benefit of distributed I/O with the flexibility of local channel expansion.

Main Features

- Direct Sensor connection for DC voltages, thermocouples strain gauges RTD's resistance and 4-20mA converters
- 16 inputs on board expandable locally to 256 channels (1000 over network)
- Integral network interface for distribution over 1.2 Km (4Km with extension unit)
- 16 bit measurement performance with 0.625 μ V sensitivity
- Serial Port isolated to 500 VDC
- Wide range of compatible analog and digital input/output modules for expansion
- Local measurement speed up to 400 readings/sec 1000/sec over the network
- Individual channel programming of sensor type and speed
- Multi Vendor Software Support
- Compact Rugged DIN rail mounted
- Network Port isolated to 500 VDC

The **7300** series is designed to provide a simple, reliable, accurate and cost effective means of connecting plant sensors to standard computers for real time monitoring and data acquisition. The Datascan can be used universally with any type of computer as the data interface is by means of a standard serial port.

The **7300** series is the most recent addition to the range of measurement processors and is completely compatible with the previous series of products. The 7300 series can be used with any of the 26 Datascan channel expansion modules in the range.

The **7300** series can be used autonomously or alternatively as part of a total distributed network. Each 7300 can support up to 256 channels of local inputs or outputs using the units local expansion bus. Alternatively it can become part of a distributed network of up to 1000 channels spanning a distance of up to 4 Km (15000 ft). Each 7300 incorporates a programmable 16 bit ADC, an isolated serial interface, an isolated token passing network interface, on board non volatile memory for storing unit configurations, 8 or 16 inputs depending on model type, and an expansion port for channel extension. The unit is packaged in a compact DIN rail mounted carrier making it simple to install.

