Datascan 7011 Network Interface Module

Main Features

- Remote Host Operation
- Local Monitoring Facility
- 38.4 kBaud data transfer
- Comprehensive range of built in software commands
- 500V Isolation from Network
- High and low speed data acquisition
- Compact DIN Rail Mounting

General Description

The Datascan 7011 Network Interface module allows connection for a host computer or local display device into a Datascan 7000 Network at any point.

The 7011 is a low cost alternative to the 7010 Measurement Processor at a location where access to the Datascan 7000 Network is required, but there is no need for any local measurement. The 7011 gives the host 500V isolation from the network, thereby protecting both host and network from undesirable large voltages.

The 7011 is connected to the real time Datascan 7000 Network by means of the isolated RS485 Network Port. This token passing network can extend over a distance of 1.2km (4000ft) and support a total channel capacity of 1000 channels of various types.

The network bandwidth permits an update rate of 1000 channels/sec. Since all of the measured data is always available at any point, the 7011 allows any subset of the measured data to be read in real-time.

The network supports dual token operation which enables one set of channels to be scanned at a higher frequency than a second set, thus providing a facility for mixing high and low speed measurement.

7011 Technical Specification

Measurement Speed (Individual channel speed selection)	
16 Bit	40 rdgs/sec
14 Bit	400 rdgs/sec

RS232 Interface	
Baud rates selectable are : 4800, 9600, 19200, 38400	

Recommended Cable Types	
Belden 9207	upto 1.2km
Belden 8761	upto 300m

Network	
Electrical Specification	RS485
Transmission	93.75 kBaud
Data Rate	1000 results/sec
Total Channels per Network	1000
Max. No. of nodes (Processors)	32
Max. Network Length	1.2km (4000ft)

Power Requirements	
24V AC or DC @ 500 mA	Battery backup life : 5 Years unpowered

Host Access

Host Computer access to the 7011 is through the isolated RS232 Port with a switch selectable baud rate from 4800 to 38k4 Baud.

The 7011 allows the user to configure and re-configure any channels using any of the 50 built-in Datascan Software commands. These allow the definition of labels, alarms, scaling, resolution, units and mathematical functions on a per channel basis.

As a low cost alternative to a computer, a standard terminal may be connected to the RS232 Port for use in any configuration. In addition up to 10 titled display pages may be defined with any mix of 16 channels on each page. This provides a local monitoring facility for installation, servicing or permanent display.

Dimensions	Width	Depth	Height	Weight
	230mm	80mm	123mm	600g
Enviromental				
Operating Temperature Range	-10 C to +60 C			
Storage Temperature Range	-20 C to +80 C			
Relative Humidity	90% Non Condensing			