DATASCAN SERVER



What is the Datascan Server?

The Measuresoft Datascan Server comes equipped with desktop configuration and monitoring tools making network setup an straightforward task. Setting up the Datascan network, modules and channels is uncomplicated and user friendly.

Configuration is then used by the server to issue commands to the Datascan via a RS232 cable. Puring scanning operations, the **Measuresoft Datascan Server** manages all aspects of Datascan communications; initializing & programming the Datascans, commanding them to take measurements, receiving the incoming channel data and constantly monitoring the system for errors.

Features

Compatible with both legacy (XP) and current versions of Windows

Available in 32-bit or 64-bit versions

Compatible with the OPC Data Access v1.0 and v2.0 standards

Compatible with the Excel RTD standard

Supports multiple Datacan Networks on a single PC using multiple RS232 Interfaces

Interrogation of Datascan network for module and reading of configuration from Datascan

Slow and fast acquisition speeds

Server can act as controller or listener, allowing other systems to be on the Datascan network

Continuous or single shot measurement to avoid wearing down of reed relays

Temperature result setting

Conversion laws

Diagnostic channels and debug output for monitoring Datascan communications

Full traceability of all configuration changes to Datascan

Dynamic calibration and reconfiguration of Datascan channels e.g. modes tags etc., without having to stop OPC clients

Support for all Datascan module types and all associated measurement modes

7020 – 16 Channel analog input module

7021 – 8 Channel analog input module

7027 – 16 Channel isolated analog input module

7031 – 16 Channel isolated digital input module

7035 – 16 Channel isolated digital output module

7036 - 8in/8out isolated digital I/O module

7041 – 16 Channel isolated digital counter/ timer/ frequency module

7050 - 8/8 Channel analog input / output module

7220 – 16 Channel measurement processor

7221 – 8 Channel measurement processor

7250 - Analog I/O measurement

7320 – 16 Channel measurement processor

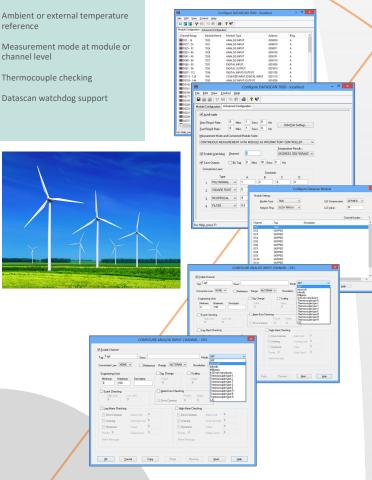
7321 – 8 Channel measurement processor

7327 – 16 Channel isolated measurement processor

7236-8in/8out isolated digital I/O

Ambient or external temperature

channel level



OPC Server for Modular Data Acquisition



Key Benefits

Connects third party systems to Datascan networks

Allows you to use Excel and as a data monitoring tool

Eliminates the requirement for custom programming or replacement of your software.

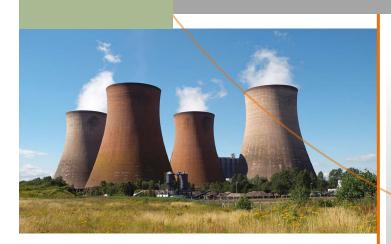
Allows you to support Datascan hardware on modern PC platforms into the future without major investment in replacement software or hardware.

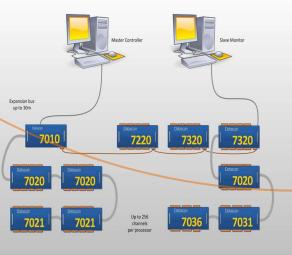


Module	7020	7021	70271	7050	7031	7035	7036	7041
DC Voltage 4-20mA current Thermocouples	16	8	16 200V isolation	8				
Strain Resistance PRT								
DC Voltage out DC Current out				8				
Digital status Counting <10Hz					16		8	8
Frequency period Counting <3.5kHz								8
Digital status output						16	8	
Specification	General & Analog Spec. A		General & Analog Spec. B	General & Analog Spec. B	Digital Spec. C			
Cost Ratio	0.6	0.6	0.7	0.6	0.3	0.4	0.4	0.7

conversion is not available on 7027

'OPC Server for Modular Data Acquisition System'







Processor	7220	7221	72321	7250	7010	7010-D ²	7320	7321	73273
Expansion					Yes	Yes	Yes	Yes	Yes
Pseudo digital*			32	8			16	8	16 200V isolation
DC Voltage 4-20mA current Thermocouples	16	8							
Strain Resistance PRT									
DC Voltage out DC Current out				8					
Specification	General & Analog Spec. A				General Spec. only		General & Analog Spec. A		General 8 Analog Spec. B
Cost Ratio	0.8	0.8	1.3	0.8	0.6	0.4	1.0	1.0	1.2

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^{2 – 7010-}D can only be used with 7031/35/36 expansion modules, to provide an economical solution when only digital signols are required.



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^{2 – 7041} connects directly into the RS485 Datascan bus, not via a processor expansion port

^{- 7232} connects direct to host via RS232; it does not connect to the RS485 Datascan network.