DMO1-201
WEB BASED DATA LOGGER
With Control Function

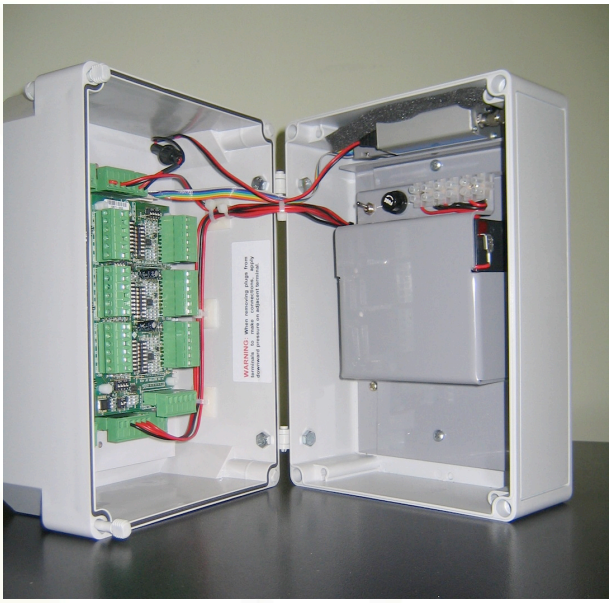
DAN
DATA ACQUISITION NETWORKS
Data Logging Solutions

The DAN DM01 is the basic monitoring system in the DAN range. It is installed in the field either as a land based or buoy based system. Configuration of the DM01 is accomplished by logging into the DAN website and entering the relevant information into the account pages. Note that the account is protected by a group name, user ID and password specific to each user and product.

The DM01 has 6 general purpose analogue inputs and one counter input. Each of the general purpose inputs are switch selectable to suit most industrial grade probes. Should probes need power supplied from the DM01 unit, separate power boards are available for this purpose. Battery voltage can be monitored if required.

The DM01 has a digital input suitable for counting pulses. The unit will capture all pulses up to a frequency of 4kHz.

The DM01 has two software alarm points associated with each of its inputs. There are 3 relays incorporated to provide local control and alarm action. The relays can be associated with any input or combination of inputs



DM01-201-M (with GPRS modem)

The DM01 has on board batteries which will allow it typically to operate for 24 to 72 hours without external power. This time is dependant upon the type of transducers connected to the inputs and the duty cycle of the unit. If a dc supply is available at the site, the unit may be recharged by any available source of dc voltage in the range 10 to 50V. If mains power is available, a plug pack with an output in this range can be connected as the means of recharging the batteries. If no power source is available then solar cells can be directly connected and used as the means of recharging the batteries. DAN can supply solar cells and plug packs as part of the implemented solution.

The DM01 has an inbuilt GSM/GPRS modem that is used to communicate both data and control signals between the DM01 and the web server via the internet gateway provided by the mobile phone service provider. An option to use CDMA is also available at additional cost.

Data is available by logging onto the DAN web site using password and logon ID. Full access to all the relevant information necessary to set up and run the unit is available. Total control of how much or how little information is displayed on the website can be managed. Data available includes data from the site, alarm messages generated and a log of all changes made to the system including details of the logon ID that made the change.

The web site also provides facilities to set local control or alarm parameters, manage passwords and access permissions, input telephone numbers and email addresses for alarm notification and calibration of the inputs.

Instantaneous data may be obtained form the unit by calling the unit from one of the authorised numbers noted into the web site by the user.

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Inputs:

Type	6 X Analogue 1 X Counter (Analogue inputs support 2 or 3 wire RTD)
Input Ranges: Current Range Voltage Range 1 Voltage Range 2 RTD Range	Dip switch selectable: 0 – 20mA/4 – 20mA 0 – 10V (0 - 5V & 1 – 5V) 0 – 4V Pt100 span -15°C to 120°C
Analogue input resolution	10 Bit (>0.1%)
Sampling Rate	19/Second
Digital Pulse Input Rate	0 – 4kHz
Input Options: Accumulator	Use input 1 As An Accumulator (This requires the counter to be set to seconds counting)
Battery Monitoring	Use input 5 to monitor internal battery voltage.
Digital input	Use as seconds counter

Output:

Relay Outputs	3 x SPST N.O. relays with contacts rated 24Vdc @ 5A

Field Hardware:

Real time clock	Included
Internal battery back-up	2 x 12V sealed lead acid
Charging options	10 to 50V by power pack or solar direct connect facility
Housing	IP65
Housing dimensions	180 x 254 x 111 deep
Weight	3.5Kg

Operating Conditions:

Operating Temperature	-10°C to +60°C
Relative Humidity	0 – 90% RH non-condensing
Temperature Stability	<0.01% of span/°C
Long Term Stability	<0.1% of span/10,000 Hrs
Power Conservation	May be enabled when solar power used

IMPORTANT NOTICE:

Due to continued product development , specifications may change without notice. Always refer to Data Acquisition Networks for the latest information.

Web Based Software:

Input Alarm/Control Points	Variable set points/time profiling Variable dead band Variable delay 2 Alarms per input SMS option for alarm & reset with user scripted message Note: Battery conservation mode available if input 5 used for monitoring battery voltage
Set-up/Change Data Reporting	Set/change variables for any given input
Data Report Format	Max, min average for reporting period
Instantaneous Data	Logged when requested and available on search
Changes Log	All changes made are recorded and available for search
Web Retention of Data	Retained for 90 days available in tabulated or graphical form
Access Security	Multi level access and data view options – user set
Session Time-out	Settable by user
Grouping	Units may be grouped for easy log-on
Relay Activation	May be linked to alarm/control points
Calibration	Set from Web Site

Communications:

Modem Type	GPRS/GSM approved modem included
Communication Method	TCP/IP
Period Data Sent	Date & time stamped, maximum, minimum & average for period

On Site Software:

Alarm Recognition	Immediate for alarms based on input data
Reporting Period	Standard variable from 60 mins. (More frequent at additional cost down to 5 Min)
Remote Reset	Enabled by specified phone contact
Data Accumulation	Up to 200 blocks non reported
Instantaneous Data	Enabled by specified phone contact