

DM12

WEB BASED DATA LOGGER

With Control Function



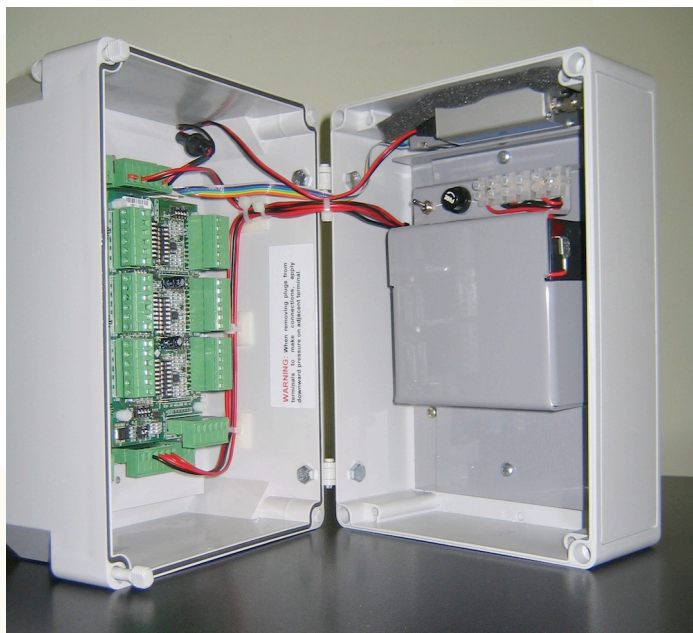
Powerful Web Based
Data Logging Solutions

The DAN DM12 is the basic monitoring system in the DAN range. It is installed in the field to collect data and transmit that data to the DAN website. Configuration of the DM12 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 DM12 has 5 general purpose analogue inputs. Each of the general purpose inputs accept 0 or 4 to 20mA signals from most industrial grade probes. The DM12 unit is able to operate with either loop powered or separately powered probes. Battery voltage can be monitored if required.

The DM12 may be upgraded to include 12 additional inputs each of which may be set up to operate in digital, counter or timer mode.

The DM12 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



DM12 (with GPRS modem)

The DM12 has on board batteries which will allow it typically to operate for 24 to 30 hours without external power. This time is dependent 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 DM12 has an inbuilt GSM/GPRS modem that is used to communicate both data and control signals between the DM12 and the web server via the internet gateway provided by the mobile phone service provider.

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 from the analogue inputs may be obtained from the unit by calling the unit from one of the authorised numbers noted into the web site by the user.

Inputs:

Type	5 X Analogue (Analogue inputs support loop or separately powered probes) 12 X Digital Inputs
Input Ranges: Analogue Current Range	0 – 20mA/4 – 20mA
Digital voltage Available	12V
Analogue input resolution	10 Bit (>0.1%)
Sampling Rate	19/Second
Input Options:	Each digital input may be set to operate in on/off recognition, counter or timer mode
Battery Monitoring	Use analogue input 5 to monitor internal battery voltage.

Output:

Relay Outputs	3 x SPST N.O. relays with contacts rated 24Vdc @ 5A
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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	IP66
Housing dimensions	150 x 200 x 100 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