



Powerful Web Based
Data Logging Solutions

The DAN Website

Set Up

Operation

&

Maintenance Instructions

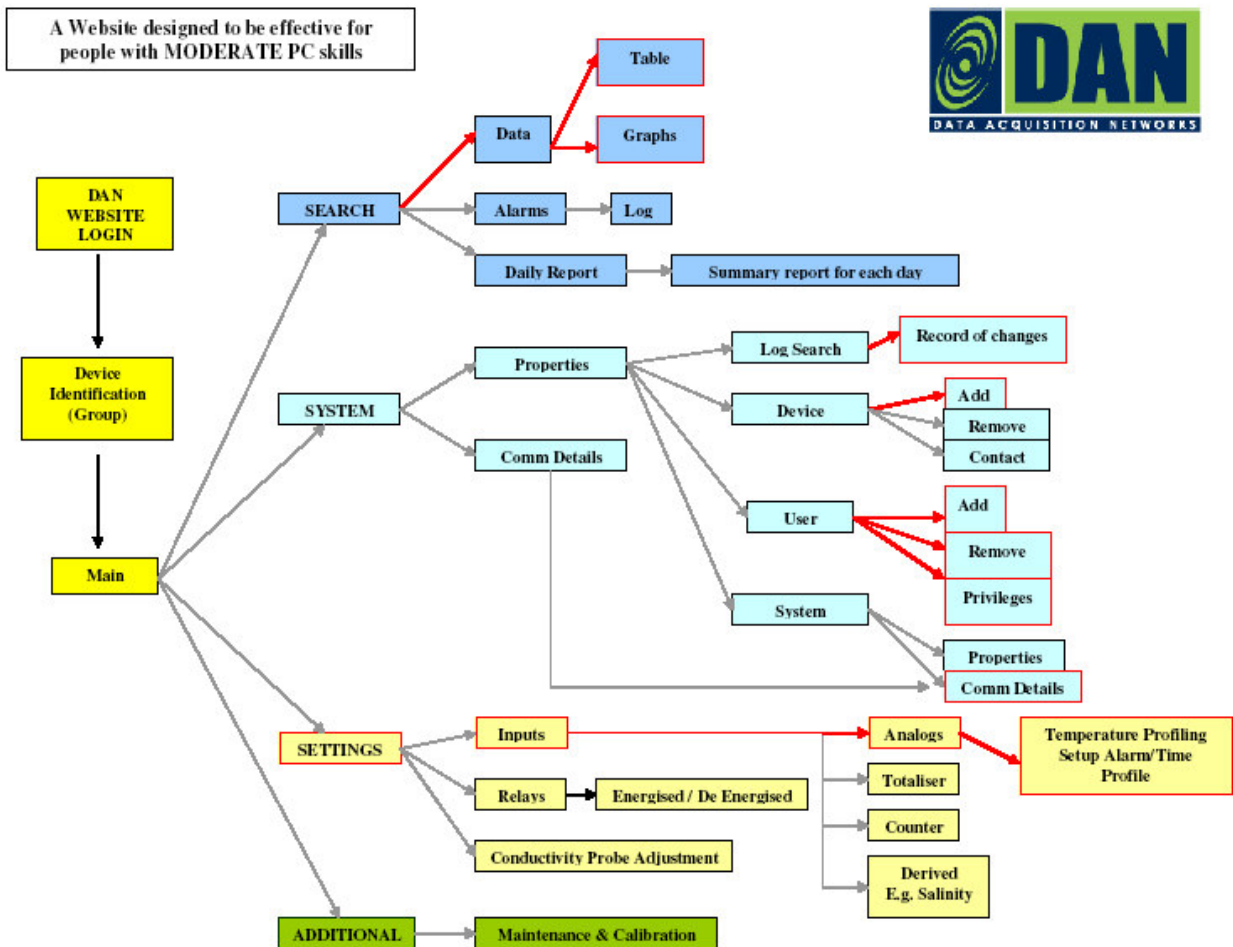
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The flow chart below will assist in locating where to find various elements of the web site:



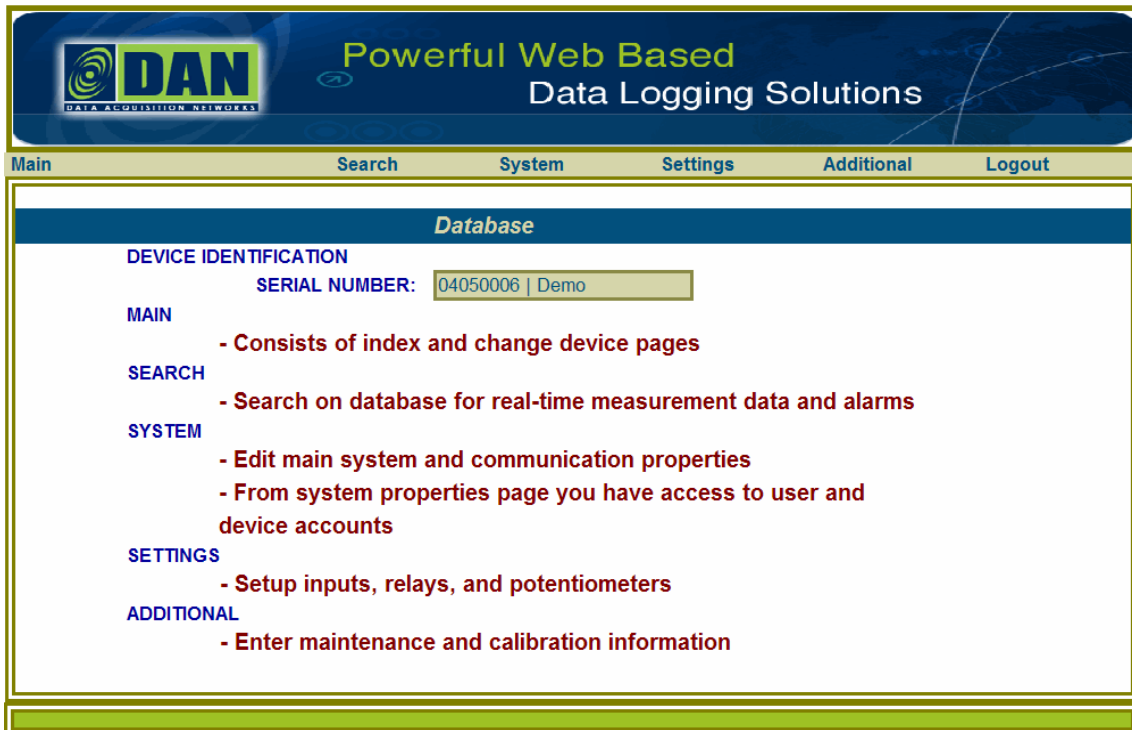
LOGIN

Refer 'DAN – ACCESSING YOUR SYSTEM'

Once you have successfully logged onto your system on the DAN website, the index can be found across the top of the page, below the blue banner. A detailed explanation of each index item is provided below. To return to the 'main' index place your cursor over the word 'main' and select 'Index'

IMPORTANT NOTES:

1. These notes cover the operational aspects of the DAN web site. For security set up and maintenance refer to the 'Administrator's Instructions'
2. When **ANY** change is made to a page it is necessary to scroll to the bottom of the page and **submit** the change. Once accepted by the DAN server you will be required to **click OK** to confirm the change.
3. SMS Messages will only be sent if the facility has been activated (refer – communication setup).
4. Any shaded field cannot be changed.
5. The maximum allowable number of characters that may be entered into any SMS message window is 98.
6. Search procedures are detailed for standard search facilities (Data and Alarm). Other search procedures follow the same pattern and may change from time to time.



The screenshot displays the DAN web interface. At the top, there is a blue banner with the DAN logo (Data Acquisition Networks) and the text "Powerful Web Based Data Logging Solutions". Below the banner is a navigation menu with links: Main, Search, System, Settings, Additional, and Logout. The main content area is titled "Database" and contains the following sections:

- DEVICE IDENTIFICATION**
 - SERIAL NUMBER: 04050006 | Demo
- MAIN**
 - Consists of index and change device pages
- SEARCH**
 - Search on database for real-time measurement data and alarms
- SYSTEM**
 - Edit main system and communication properties
 - From system properties page you have access to user and device accounts
- SETTINGS**
 - Setup inputs, relays, and potentiometers
- ADDITIONAL**
 - Enter maintenance and calibration information

SEARCH (Search for Data)

The Search page is found by passing your cursor over the 'Search' item and clicking on the drop down 'Data Search'. The following page will be displayed.

DAN
DATA ACQUISITION NETWORKS

Powerful Web Based
Data Logging Solutions

Main Search System Settings Additional Logout

Data Search

DEVICE IDENTIFICATION
DEVICE: 04050006 | Demo

SEARCH CONDITION
FROM: 2007-08-13 15:26 [YYYY-MM-DD HH:MM]
TO: 2007-08-15 15:26 [YYYY-MM-DD HH:MM]

RESULT SET ORDER
DATE/TIME: DESCENDING

RETRIEVE DATA
DATA: Interval
 Instantaneous
 Both Interval and Instantaneous

SHOW PROBE STATUS: if probe maintenance is due, data is suspected

ADVANCED
INCLUDE: BINARY DATA DATABASE ENTRY DATE

Search

SEARCH CONDITION

FROM:

The start date for the search period defaults to 48 hours prior to now. This may be changed by inserting the time and date from which the search is required to commence.

TO:

The end date for the search defaults to the current time and date. This may be changed by inserting the time and date at which the search is required to end.

RESULT SET TO ORDER

DATE/TIME:

Select 'descending' or 'ascending' by drop down. Descending places the most recent date at the top of the search result. (Hint: use 'ascending' if data is to be graphed in a spread sheet – this results in time increasing to the right.)

RETRIEVE DATA

DATA:

- 'Interval' retrieves all data sent to the web site in the period specified as requested by the reporting interval (Refer 'Communication Setup' below)
- 'Instantaneous' retrieves all instantaneous data requested in the period specified.
- 'Both Interval and Instantaneous' retrieves both of the above for the period specified.

SHOW PROBE STATUS

If the manually maintained probe maintenance feature is used, this selection will include a probe status report. (Refer 'Probe Maintenance' below)

ADVANCED

INCLUDE:

- 'BINARY DATA' selection will include in the report the data as received from the field unit before conversion into the units requested. This data is used to calibrate the respective inputs.
- 'DATA BASE ENTRY DATE' selection will include in the report the time and date the data was received by the web site

SEARCH

Initiates requested search

SEARCH (Search for Alarms)

The Alarm Search page is found by passing your cursor over the 'Search' item and clicking on the drop down 'Alarms Search'. The following page will be displayed.

DAN Powerful Web Based Data Logging Solutions

Main Search System Settings Additional Logout

Alarms Search

DEVICE IDENTIFICATION
DEVICE: 04050006 | Demo

SEARCH CONDITION
FROM: 2007-08-13 16:50 [YYYY-MM-DD HH:MM]
TO: 2007-08-15 16:50 [YYYY-MM-DD HH:MM]

RESULT SET ORDER
DATE/TIME: DESCENDING

INPUT SELECTION
INPUTS: ALL

RETRIEVE ALARMS
ALARMS: ALARM A
 ALARM B
 Both ALARM A and ALARM B

ADVANCED
INCLUDE: DATABASE ENTRY DATE

Search

SEARCH CONDITION

FROM:

The start date for the search period defaults to 48 hours prior to now. This may be changed by inserting the time and date from which the search is required to commence.

TO:

The end date for the search defaults to the current time and date. This may be changed by inserting the time and date at which the search is required to end.

RESULT SET TO ORDER

DATE/TIME:

Select 'descending' or 'ascending' by drop down. Descending places the most recent date at the top of the search result.

INPUT SELECTION

INPUTS:

Select inputs for inclusion in the report by drop down

RETRIEVE ALARMS

ALARMS:

- 'ALARM A' retrieves all alarms sent to the web site in the period specified by all A alarm/control points (Refer 'Settings' below)
- 'ALARM B' retrieves all alarms sent to the web site in the period specified by all B alarm/control points (Refer 'Settings' below)
- 'Both Alarm A and Alarm B' retrieves all alarms sent to the web site in the period specified, (Refer 'Settings' below)

ADVANCED

INCLUDE:

- 'DATA BASE ENTRY DATE' selection will include in the report the time and date the data was received by the web site

SEARCH

Initiates requested search

PROPERTIES

The Properties page is found by passing your cursor over the 'System' item and clicking on the drop down 'Properties'. The following page will be displayed.

DAN
DATA ACQUISITION NETWORKS

Powerful Web Based
Data Logging Solutions

Main Log Search Device User System Logout

System Properties

GROUP IDENTIFICATION
GROUP ALIAS: dandemo

DEVICE IDENTIFICATION
SERIAL NUMBER: 04050006 | Demo
TELEPHONE: 0410451507
ALIAS: Demo

DATE TIME
SYSTEM FIRST ACTIVATED: 2004-11-26 [YYYY-MM-DD]
PARAMETERS LAST CHANGED: 2007-06-14 [YYYY-MM-DD]

CONTACT
USER ID: 04050006
NAME:
ADDRESS:
TEL (DAY):
TEL (AFTER HOURS):

Submit

NOTE: All shaded fields on this page must be entered through the Administrator's access under "Device"


GROUP ALIAS:	The name given to this unit and if other units are added will be the name of the group of units
SERIAL NUMBER:	The serial number of the hardware given to the assembly by DAN. This number should be the same as the number on the hardware. The serial number on the hardware may be found on the edge of the lower board nearest the hinge (toward bottom of unit)
TELEPHONE:	The contact number provided for contacting the hardware via mobile telephone
SYSTEM FIRST ACTIVATED:	The date the hardware was first turned on and the date from which any free period included with the unit will be timed.
PARAMETERS LAST CHANGED:	The last date on which any operating or security setting was changed
USER ID:	The ID of the user who is nominated as the contact (for contact by DAN)
NAME:	The name of the nominated user
ADDRESS:	The address of the nominated user
TEL (DAY):	The nominated user's daytime telephone number
TEL (AFTER HOURS):	The nominated user's after hours telephone number

SUBMIT

Do not forget to submit changes

COMMUNICATION SET UP

The Communications page is found by passing your cursor over the 'System' item and clicking on the drop down 'Comm Details' The following page will be displayed.



Powerful Web Based Data Logging Solutions

MainSystemLogout

Communication Details

DEVICE IDENTIFICATION

SERIAL NUMBER:

LOCATION:

REPORTING INTERVAL: [MINUTE]

SHIFT INTERVAL END: [MINUTE] (advance or retard recording point)

MISSING REPORTS DETECTION: (if checked missing reports detection is enabled)

SEND WARNING MESSAGE AFTER: [NUMBER OF MISSING REPORTS]

MISSING REPORTS MESSAGE:

POWER CONSERVATION

CYCLE TIME: [MINUTE]

CONSERVATION TIME: [MINUTE]

TELEPHONES FOR SMS ALARMS

TELEPHONE 1: IN USE

TELEPHONE 2: IN USE

TELEPHONE 3: IN USE

TELEPHONE 4: IN USE

TELEPHONE 5: IN USE

E-MAIL ADDRESS FOR ALARMS

E-MAIL 1: IN USE

E-MAIL 2: IN USE

E-MAIL 3: IN USE

E-MAIL 4: IN USE

E-MAIL 5: IN USE

TELEPHONE APPROVED TO RESET DEVICE

TELEPHONE:

TELEPHONES THAT CAN RECEIVE INSTANTANEOUS DATA

TELEPHONE 1:

TELEPHONE 2:

TELEPHONE 3:

TELEPHONE 4:

TELEPHONE 5:

REDCOAL

REDCOAL SMSKEY:

CLICK HERE TO SET UP MESSAGING ACCOUNT WITH REDCOAL. PLEASE NOTE :
ON REGISTRATION WITH REDCOAL A "SMSKEY" WILL BE PROVIDED TO YOU.
TO COMPLETE THE SMS ACTIVATION, LOG IN AND ENTER THIS INFORMATION ABOVE.
TO TEST SUCCESSFUL ACTIVATION OF YOUR ALARM MESSAGING CLICK HERE:

COMMUNICATION SET UP (Cont'd)

LOCATION: Optional field for imputing location of this field unit
REPORTING INTERVAL: The time in minutes over which this unit will gather data and then report that data to the web site
SHIFT INTERVAL: A facility to move the end time of data capture forward or backward.
END: Returns to '0' once action implemented.

MISSING REPORTS DETECTION: Should you require the web site to monitor your field unit for missed reports
SEND WARNING MESSAGE AFTER: The number of missed reports before the web site alerts you to the fact by sending an email (and SMS if activated)
MISSING REPORTS MESSAGE: The message you wish to receive when the server detects that the set number of 'reports missed' is reached.

POWER CONSERVATION (For use with solar powered field devices)

CYCLE TIME: The time for one reading cycle. Toward the end of each reading cycle, the unit will power up one minute then take readings for one minute.
CONSERVATION TIME: The time during which the field unit will power down and is automatically calculated from the cycle time (= cycle time less two minutes)

TELEPHONE FOR SMS ALARMS:

Up to five mobile numbers may be assigned for receipt of SMS alarm messages (and may be changed at any time) Only those numbers ticked as 'in use' at the time will receive messages

EMAIL ADDRESS FOR ALARMS:

Up to five email addresses may be assigned for receipt of email alarm messages (and may be changed at any time) Only those addresses ticked as 'in use' at the time will receive messages

TELEPHONE APPROVED TO RESET DEVICE:

TELEPHONE: One phone number may be entered as authorised to remotely restart the field unit. The number may be changed as required but a change in number will only be effective after the next reporting cycle.

TELEPHONES THAT CAN RECEIVE INSTANTANEOUS DATA:

Up to five mobile numbers may be assigned for access to instantaneous data (and may be changed at any time) Only the requesting number will receive the SMS

REDCOAL

Click on 'redcoal' to go to the Redcoal web site in order to set up your SMS account.


REDCOAL SMS KEY: When an account is successfully set up with Redcoal, an SMS Key will be provided. The SMS key should be entered here

SUBMIT

Do not forget to submit changes

SETTINGS – Analog inputs

The Analog Inputs page is found by passing your cursor over the 'Settings' item and clicking on the drop down for 'Inputs'. The following page will be displayed defaulting to analog input 1. Change inputs on drop down under 'Analog's'.



Powerful Web Based
Data Logging Solutions

Main **Analogs** Totalizer Counter Derived Logout

IF YOU MEASURE THE TEMPERATURE WITH PT100 PLEASE ENTER PT100 IN MEASURED VARIABLE TYPE FIELD

Analog Input Setup

DEVICE IDENTIFICATION
SERIAL NUMBER: 04050006 | Demo

INPUT DESCRIPTION
NUMBER: 2
LABEL: Tank 1 level
IN USE:

MEASURED VARIABLE
TYPE: Volume
UNIT: Litres
HIGH: 50000
LOW: 0

TRANSDUCER OUTPUT (INFORMATION ONLY)
TYPE: mA
HIGH: 20
LOW: 4

ALARM/TIME PROFILE **SELECTED**
[setup alarm/time profile](#) [CLICK HERE TO GO TO ALARM/TIME PROFILE SETUP PAGE](#)

ALARM/CONTROL A
TYPE: HIGH
SET POINT: 48000 CURRENT IN DEVICE
DEAD BAND: 500
DELAY TIME: 10 [SECOND]
SEND ALARM TRIP SMS:
TRIP MESSAGE: Tank Level Reached 48Kl
SEND ALARM RESET SMS:
RESET MESSAGE: Tank Level Returned Below 48Kl
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

ALARM/CONTROL B
TYPE: LOW
SET POINT: 2000 CURRENT IN DEVICE
DEAD BAND: 200
DELAY TIME: 10 [SECOND]
SEND ALARM TRIP SMS:
TRIP MESSAGE: Tank Level < 2Kl
SEND ALARM RESET SMS:
RESET MESSAGE: Tank Level > 2Kl
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

SETTINGS – Analog (Cont'd)

INPUT DESCRIPTION

- NUMBER:** Ensure the input being detailed here corresponds with the input number on the field unit
- LABEL:** Identify your input with a name. This name will appear at the top of the report data column.
- IN USE:** Tick if this input is to appear in the report.

MEASURED VARIABLE

- TYPE:** Enter the variable being measured with this enter. Note that if a PT100 is connected, "PT100" should be entered here.
- UNIT:** Enter the units being measured by the probe connected to this input
- HIGH:** Enter the maximum reading permissible by the probe
- LOW:** Enter the minimum reading permissible by the probe

TRANSDUCER OUTPUT (INFORMATION ONLY)

- TYPE:** Enter the type of probe connected
- HIGH:** Enter the maximum probe output
- LOW:** Enter the minimum probe output

ALARM/TIME PROFILE: Ticked only if Alarm/Time Profile Activated

Setup Alarm/Time Profile: Refer 'Setup Alarm/Time Profile' below

ALARM/CONTROL A

- TYPE:** Select either 'HIGH' or 'LOW' alarm/control
- SET POINT:** Enter the value at which the alarm/control is to be recognised. If the alarm/time profile has been activated the shaded area will display the current set point downloaded to the field unit.
- DEAD BAND:** Enter the value by which the set point is to recover before the alarm/control condition is returned to normal
- DELAY TIME:** Enter the delay (in seconds) which are allowed to elapse during which the alarm condition must continue to be present before it is recognised. (NOTE: Should the alarm condition reset during this period and immediately reoccur, the timer will restart)
- SEND ALARM TRIP SMS:** Tick if an SMS is to be sent when the alarm/control is recognised
- TRIP MESSAGE:** Script the SMS message to be sent on alarm/control recognition
- SEND ALARM RESET SMS:** Tick if an SMS is to be sent when the alarm/control is reset
- RESET MESSAGE:** Script the SMS message to be sent on alarm/control reset
- RELAY OPERATION:** Nominate relays to change state when alarm/control recognised. Nominated relays will return to normal state when alarm/control reset
- COMMAND:** Tick if counter to be reset on alarm/control recognition

ALARM/CONTROL B

Similarly input all entries for Alarm/Control point B (if required).


NOTE: Either or both alarm/control points may be 'HIGH' or 'LOW'

SUBMIT

Do not forget to submit changes

SETTINGS – Totalizer

The Totalizer Input page is found by passing your cursor over the 'Settings' item and clicking on the drop down for 'Inputs'. The following page will be displayed. Click on 'Totalizer'.



Powerful Web Based
Data Logging Solutions

Main Analogs **Totalizer** Counter Derived Logout

Totalizer Setup

DEVICE IDENTIFICATION
SERIAL NUMBER: 04050006 | Demo

INPUT DESCRIPTION
NUMBER: 8
LABEL: Accumulator
IN USE:

FLOW TRANSMITTER SCALING
FLOW UNITS:
FLOW UNIT PER: Second Minute Hour Day

TOTALIZING CONVERSION FACTOR: 1
CONVERTED FLOW UNIT: Litres

TRANSDUCER OUTPUT (INFORMATION FROM INPUT 1)
TYPE: mA
HIGH: 20
LOW: 4

ALARM/TIME PROFILE SELECTED
[setup alarm/time profile](#) [CLICK HERE TO GO TO ALARM/TIME PROFILE SETUP PAGE](#)

ALARM/CONTROL TOTAL 1
SET POINT: 6 CURRENT IN DEVICE
SEND ALARM TRIP SMS:
TRIP MESSAGE: High Threshold Exceeded
SEND ALARM RESET SMS:
RESET MESSAGE: System Reset Completed
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

ALARM/CONTROL TOTAL 2
SET POINT: 4 CURRENT IN DEVICE
SEND ALARM TRIP SMS:
TRIP MESSAGE: Low Threshold Exceeded
SEND ALARM RESET SMS:
RESET MESSAGE: System Reset Completed
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

SETTINGS – Totalizer (Cont'd)

The totalizer functions by means of converting the flow meter connected to input No1, averaging the flow each second and adding the result to a totalizer. The total of flow during the reporting period is displayed in a separate column in the search report.

NOTE: When the totalizer is being used, the counter must be set to internal and cannot be used concurrently for external counting.

INPUT DESCRIPTION

NUMBER: There is no input number on the field unit which corresponds with the totalizer. The data generated by the totalizer is a combination of the analogue input from input No1 and the counter operating as a timing device (seconds counter)

LABEL: Identify your input with a name. This name will appear at the top of the report data column.

IN USE: Tick if this input is to appear in the report.

FLOW TRANSMITTER SCALING

FLOW UNITS: Enter the flow units being measured by the flow meter connected to input No 1

FLOW UNITS PER: Enter the time base of the flow meter connected to input No1

TOTALIZING Should the flow units preferred to be displayed on the search report

CONVERSION FACTOR: be different to the units being measured, input the conversion factor here. (e.g. litres to kilolitres, conversion 0.001, also permits conversion of gallons to litres etc using the correct conversion factor)

CONVERTED FLOW UNIT: Enter the units to be displayed on the search report

TRANSDUCER OUTPUT (INFORMATION FROM INPUT 1)

TYPE:) These three fields will be automatically filled with the data already

HIGH:) entered for analog input No1

LOW:)

ALARM/TIME PROFILE: Ticked only if Alarm/Time Profile Activated

Setup Alarm/Time Profile: Refer 'Setup Alarm/Time Profile' below

ALARM/CONTROL TOTAL 1

TYPE: Select either 'HIGH' or 'LOW' alarm/control

SET POINT: Enter the value at which the alarm/control is to be recognised. If the alarm/time profile has been activated the shaded area will display the current set point.

SEND ALARM TRIP SMS: Tick if an SMS is to be sent when the alarm/control is recognised

TRIP MESSAGE; Script the SMS message to be sent on alarm/control recognition

SEND ALARM RESET SMS: Tick if an SMS is to be sent when the alarm/control is reset

RESET MESSAGE; Script the SMS message to be sent on alarm/control reset

RELAY OPERATION; Nominate relays to change state when alarm/control recognised. Nominated relays will return to normal state when alarm/control reset

COMMAND: Tick if counter to be reset on alarm/control recognition

ALARM/CONTROL TOTAL 2

Similarly enter all entries for Alarm/Control point 2 (if required).


NOTE: Either or both alarm/control points may be 'HIGH' or 'LOW'

SUBMIT

Do not forget to submit changes

SETTINGS – Counter

The Counter Input page is found by passing your cursor over the 'Settings' item and clicking on the drop down for 'Inputs'. The following page will be displayed, click on 'Counter'.



Powerful Web Based
Data Logging Solutions

Main Analogs Totalizer Counter Derived Logout

Digital Input Setup

DEVICE IDENTIFICATION
SERIAL NUMBER: 04050006 | Demo

INPUT DESCRIPTION
NUMBER: 7
LABEL: Flow
IN USE:

MEASURED VARIABLE
TYPE: Litres
SCALING FACTOR: 1
UNIT: L

DIGITAL INPUT SOURCE
EXTERNAL: EXTERNAL OR INTERNAL SECOND TICKER

COMMAND
RESET COUNTER:

TRANSDUCER OUTPUT (INFORMATION ONLY)
TYPE:
HIGH:
LOW:

ALARM/TIME PROFILE SELECTED
[setup alarm/time profile](#) [CLICK HERE TO GO TO ALARM/TIME PROFILE SETUP PAGE](#)

ALARM/CONTROL TOTAL 1
SET POINT: 3 CURRENT IN DEVICE
SEND ALARM TRIP SMS:
TRIP MESSAGE:
SEND ALARM RESET SMS:
RESET MESSAGE:
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

ALARM/CONTROL TOTAL 2
SET POINT: 4 CURRENT IN DEVICE
SEND ALARM TRIP SMS:
TRIP MESSAGE:
SEND ALARM RESET SMS:
RESET MESSAGE:
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

SETTINGS – Counter (Cont'd)

The counter configuration consists of two parts, a counter that can be re-set, and a gross counter that cannot be re-set. Counts accrued on the re-settable counter are transferred to the gross counter each time the re-settable counter. The counter may be used as an internal seconds counter to time the operation of any of the relays.

INPUT DESCRIPTION

NUMBER: Ensure the input being detailed here corresponds with the input number on the field unit

LABEL: Identify your input with a name. This name will appear at the top of the report data column.

IN USE: Tick if this input is to appear in the report.

MEASURED VARIABLE

TYPE: Enter the variable being measured with this input.

SCALING FACTOR: Enter the number of units above being measured by each progression of the counter (e.g. meter producing one count per five litres = enter 5)

UNIT: Enter the units to be displayed in the search column (e.g. Litres etc)

DIGITAL INPUT SOURCE

EXTERNAL: Tick if using an external counter input. Leave blank if using the internal seconds counter for relay operation or when used in conjunction with the Totalizer

COMMAND:

RESET COUNTER: The re-settable counter may be re-set manually by ticking this input. Once the reset has been completed, the box clears.

TRANSDUCER OUTPUT (INFORMATION ONLY)

TYPE: Enter the output type, normally voltage

HIGH: Enter the transducer maximum output

LOW: Enter the transducer minimum output

ALARM/TIME PROFILE: Ticked only if Alarm/Time Profile Activated

Setup Alarm/Time Profile: Refer 'Setup Alarm/Time Profile' below

ALARM/CONTROL TOTAL 1

SET POINT: Enter the value at which the alarm/control is to be recognised. If the alarm/time profile has been activated the shaded area will display the current set point.

SEND ALARM TRIP SMS: Tick if an SMS is to be sent when the alarm/control is recognised

TRIP MESSAGE: Script the SMS message to be sent on alarm/control recognition

SEND ALARM RESET SMS: Tick if an SMS is to be sent when the alarm/control is reset

RESET MESSAGE: Script the SMS message to be sent on alarm/control reset

RELAY OPERATION: Nominate relays to change state when alarm/control recognised. Nominated relays will return to normal state when alarm/control reset

COMMAND: Tick if counter to be reset on alarm/control recognition

ALARM/CONTROL TOTAL 2


Similarly enter all entries for Alarm/Control point 2 (if required).

SUBMIT

Do not forget to submit changes

SETTINGS – Derived Solutions

The Derived Solutions Inputs page is found by passing your cursor over the 'Settings' item and clicking on the drop down for 'Inputs'. The following page will be displayed click on 'Derived'.



Powerful Web Based
Data Logging Solutions

Main Analogs Totalizer Counter **Derived** Logout

Salinity Calculation Setup

DEVICE IDENTIFICATION
SERIAL NUMBER: 04050006 | Demo

INPUT DESCRIPTION
NUMBER: CALC 1
LABEL: Salinity
IN USE:

MEASURED VARIABLE
TYPE: Salinity
UNIT:
HIGH: 45
LOW: 10

TRANSDUCER OUTPUT (INFORMATION ONLY)
TYPE: mA
HIGH: 20
LOW: 4

ALARM/CONTROL A
TYPE: HIGH
SET POINT: 7.40
DELAY ON TRIP: 40 [MINUTE]
DEAD BAND: 0.40
DELAY ON RESET: 1 [MINUTE]
SEND ALARM TRIP SMS:
TRIP MESSAGE: High Alarm On PH
SEND ALARM RESET SMS:
RESET MESSAGE: High Alarm Cleared On PH
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

ALARM/CONTROL B
TYPE: LOW
SET POINT: 4.50
DELAY ON TRIP: 50 [MINUTE]
DEAD BAND: 0.50
DELAY ON RESET: 1 [MINUTE]
SEND ALARM TRIP SMS:
TRIP MESSAGE: Low Alarm On PH
SEND ALARM RESET SMS:
RESET MESSAGE: Low Alarm Cleared On PH
RELAY OPERATION: RELAY1 RELAY2 RELAY3
COMMAND: COUNTER RESET

SETTINGS – Derived Solutions (Cont'd)

Mathematical combinations of inputs may be displayed as a derived function. If the derived function you require is not available, contact DAN for pricing & availability.

IMPORTANT NOTE: Alarm/control points based upon derived solutions are only recognised when the web site receives routine data from the field unit and are derived from that interval data. **They are not instantaneously recognised.** Any delay time should recognise the maximum delay possible between reporting periods.

INPUT DESCRIPTION

NUMBER: Choose the calculation to be performed from the drop down selection found by passing the cursor over 'Derived' item in the index

LABEL: Identify your input with a name. This name will appear at the top of the report data column.

IN USE: Tick if this input is to appear in the report.

MEASURED VARIABLE

TYPE: Enter the variable being measured with this input.

UNIT: Enter the derived units.

HIGH: Enter the maximum derived value.

LOW: Enter the minimum derived value

TRANSDUCER OUTPUT (INFORMATION ONLY)

TYPE: Not Applicable

HIGH: Not Applicable

LOW: Not Applicable

ALARM/TIME PROFILE: Ticked only if Alarm/Time Profile Activated

Setup Alarm/Time Profile: Refer 'Setup Alarm/Time Profile' below

ALARM/CONTROL A

TYPE: Select either 'HIGH' or 'LOW' alarm/control

SET POINT: Enter the value at which the alarm/control is to be recognised. If the alarm/time profile has been activated the shaded area will display the current set point.

DELAY ON TRIP: Enter the value by which the set point is to recover before the alarm/control condition is returned to normal

DEAD BAND: Enter the delay (in seconds) which are allowed to elapse during which the alarm condition must continue to be present before it is recognised. (NOTE: Should the alarm condition reset during this period and immediately reoccur, the timer will restart)

SEND ALARM TRIP SMS: Tick if an SMS is to be sent when the alarm/control is recognised

TRIP MESSAGE; Script the SMS message to be sent on alarm/control recognition

SEND ALARM RESET SMS: Tick if an SMS is to be sent when the alarm/control is reset

RESET MESSAGE; Script the SMS message to be sent on alarm/control reset

RELAY OPERATION; Nominate relays to change state when alarm/control recognised. Nominated relays will return to normal state when alarm/control reset

COMMAND: Tick if counter to be reset on alarm/control recognition

ALARM/CONTROL B


Similarly enter all entries for Alarm/Control point B (if required).

SUBMIT

Do not forget to submit changes

SETUP ALARM/TIME PROFILE

The Setup Alarm Time Profile option is available on each input setup page and can be accessed by clicking on the blue 'Setup Alarm/Time Profile' menu. Time profiles will affect that input. The following page will be displayed:



Powerful Web Based Data Logging Solutions

MainAnalogsTotalizerCounterDerivedLogout

Analog Input Alarm/Time Profile Setup

DEVICE IDENTIFICATION

SERIAL NUMBER:

LABEL:

INPUT DESCRIPTION

NUMBER:

MEASURED VARIABLE

HIGH:

LOW:

ALARM/TIME PROFILE **SELECTED**

CONTROL **RAMP**

DAY NUMBER OFFSET - POPULATE DATE/TIME:

<input type="text"/>	[POINT 1]
<input type="text"/>	[POINT 2]
<input type="text"/>	[POINT 3]
<input type="text"/>	[POINT 4]
<input type="text"/>	[POINT 5]
<input type="text"/>	[POINT 6]

POINT 1

DATE/TIME: [YYYY-MM-DD HH:MM]

ALARM/CONTROL A SET POINT:

ALARM/CONTROL A DEAD BAND:

ALARM/CONTROL B SET POINT:

ALARM/CONTROL B DEAD BAND:

POINT 2

DATE/TIME: [YYYY-MM-DD HH:MM]

ALARM/CONTROL A SET POINT:

ALARM/CONTROL A DEAD BAND:

ALARM/CONTROL B SET POINT:

ALARM/CONTROL B DEAD BAND:

POINT 3

DATE/TIME: [YYYY-MM-DD HH:MM]

ALARM/CONTROL A SET POINT:

ALARM/CONTROL A DEAD BAND:

ALARM/CONTROL B SET POINT:

ALARM/CONTROL B DEAD BAND:

POINT 4

DATE/TIME: [YYYY-MM-DD HH:MM]

ALARM/CONTROL A SET POINT:

ALARM/CONTROL A DEAD BAND:

ALARM/CONTROL B SET POINT:

ALARM/CONTROL B DEAD BAND:

POINT 5	
DATE/TIME:	2333-01-01 00:00 [YYYY-MM-DD HH:MM]
ALARM/CONTROL A SET POINT:	4.6
ALARM/CONTROL A DEAD BAND:	1
ALARM/CONTROL B SET POINT:	9.3
ALARM/CONTROL B DEAD BAND:	1
POINT 6	
DATE/TIME:	2333-01-01 00:00 [YYYY-MM-DD HH:MM]
ALARM/CONTROL A SET POINT:	4.6
ALARM/CONTROL A DEAD BAND:	1
ALARM/CONTROL B SET POINT:	9.3
ALARM/CONTROL B DEAD BAND:	1
<input type="button" value="Submit"/>	

SETUP ALARM/TIME PROFILE (Cont'd)

ALARM/TIME PROFILE: CONTROL

Select if required by placing a tick in the window

Step profile is automatically selected. (The set point changes once at the end of each point (or period).

Tick window if 'ramp' change is required (The web site calculates the new set point for each reporting period and downloads each new set point each time the field unit reports).

DAY NUMBER OFFSET – POPULATE DATE/TIME (POINTS 1 TO 6)

To facilitate date entry for each successive point of change, enter the number of the day on which each set point is to change with today being day '0', tomorrow day '1' and so on. Note the relevant dates will appear in each of the POINT' windows below.

POINT 1 DATE/TIME:

Either enter the date automatically as above or manually in the format required. Note when entering dates automatically, time is repeated each day as current time of entry each day. Time may be altered manually if required.

ALARM/CONTROL A SET POINT:

Enter the value at which the alarm/control is to be recognised. If the alarm/time profile has been activated the shaded area will display the current set point.*

ALARM/CONTROL A DEAD BAND

Enter the value by which the set point is to recover before the alarm/control condition is returned to normal

ALARM/CONTROL B SET POINT:

Enter the value at which the alarm/control is to be recognised. If the alarm/time profile has been activated the shaded area will display the current set point.*

ALARM/CONTROL B DEAD BAND

Enter the value by which the set point is to recover before the alarm/control condition is returned to normal

SUBMIT

Do not forget to submit changes

* Current set points are displayed on the input page for that input

SETTINGS – Relays

The Relay Setting page is found by passing your cursor over the 'Settings' item and clicking on the drop down for 'Relays'. The following page will be displayed.

The screenshot shows the 'Relays' configuration page. At the top, there is a blue banner with the DAN logo and the text 'Powerful Web Based Data Logging Solutions'. Below the banner is a navigation bar with 'Main', 'Settings', and 'Logout' links. The main content area is titled 'Relays' and contains a 'DEVICE IDENTIFICATION' section with a 'SERIAL NUMBER' field set to '04050006 | Demo'. Below this is a 'RELAYS' section with three dropdown menus for 'RELAY 1', 'RELAY 2', and 'RELAY 3', all currently set to 'NORMALLY DE ENERGIZED'. A 'Submit' button is located at the bottom of the form.

SETTINGS – Relays (Cont'd)

RELAY 1: By drop down in the window select each relay to be either normally energised or de energised. (Normally energised relays are closed until released – i.e. fail safe). Note that if the field unit is solar powered ensure that sufficient power is available to hold the relay closed for periods where alarm/control conditions are normal. (We recommend for solar powered units that relays cannot be used reliably in fail safe mode due to the continuous current drain of 10mA/relay). If relays are not being used, ensure that they are set in the 'NORMALLY DE ENERGIZED' position.

RELAY 2: Repeat as for relay 1

RELAY 3: Repeat as for relay 1

SUBMIT **Do not forget to submit changes**

PROBE MAINTENANCE

The Probe Maintenance Input page is found by passing your cursor over the 'Additional' item and clicking on the drop down for 'Maintenance'. The following page will be displayed.



The screenshot shows a web browser window with a dark blue header. On the left is the DAN logo (Data Acquisition Networks). On the right, it says "Powerful Web Based Data Logging Solutions". Below the header is a navigation bar with "Main", "Additional", and "Logout" links. The main content area has a blue title bar that says "Probe Maintenance". Below this, there are several sections of input fields:

- DEVICE IDENTIFICATION**
 - SERIAL NUMBER: 04050006 | Demo
- PROBE**
 - DATE MAINTAINED: 0000-00-00 [YYYY-MM-DD]
 - NEXT MAINTENANCE DUE BY: 0002-12-07
 - NO LATER THAN: 0002-12-10
- OPERATOR**
 - NAME: DAN USER

At the bottom center of the form is a "Submit" button.

The 'Probe Maintenance' page is intended to be used as a manually maintained reporting facility. Each time probes are cleaned, the date is entered into the 'DATE MAINTAINED:' window. The next scheduled date for maintenance will be calculated and displayed. A second date will also be calculated representing the latest date recommended. (Recommended periods are automatically based on a fixed weekly cycle)

The condition of the probes may then be included in the data search report.

CALIBRATION

The Calibration Input page is found by passing your cursor over the 'Additional' item and clicking on the drop down for 'Calibration'. The following page will be displayed.

DAN
DATA ACQUISITION NETWORKS

Powerful Web Based
Data Logging Solutions

Main Calibration Logout

Input Calibration

DEVICE IDENTIFICATION
SERIAL NUMBER: 04050006 | Demo

INPUT DESCRIPTION
NUMBER: 1
LABEL: DO Pond 1

CALIBRATION POINT 1
MEASURED VALUE: 0 [X]
ANALOG TO DIGITAL: 0 [X]

CALIBRATION POINT 2
MEASURED VALUE: 14 [X]
ANALOG TO DIGITAL: 1023 [X]

Submit

CALIBRATION (Cont'd)

Data for calibration is gained by including binary data along with the normal data.

NOTE: Calibrations must be undertaken within the measured variable limits input on the respective input settings page or the calibration will not be permitted.

CALIBRATION POINT 1

MEASURED VALUE:

Enter in this window the value of the standard being used at the lower calibration point

ANALOGUE TO DIGITAL:

Enter in this window the binary value received when the probe was reading the standard being used for the lower calibration point. (Allow time for readings to stabilise)

CALIBRATION POINT 2

MEASURED VALUE:

Enter in this window the value of the standard being used at the higher calibration point

ANALOGUE TO DIGITAL:

Enter in this window the binary value received when the probe was reading the standard being used for the higher calibration point. (Allow time for readings to stabilise)

SUBMIT

Do not forget to submit changes