

DE20

Automatic Data Logging With Manual Input



Automatic Data Logging

- ✓ Up to 17 input sensors can be connected and monitored
- ✓ 4-20mA analogue inputs to accept any measurements
- ✓ Counter inputs for control and measurement
- ✓ Change of state, on/off inputs
- ✓ Timer inputs
- ✓ Temperature inputs

Manual Data Entry via keypad

- ✓ User configurable input tables
- ✓ Record service visits and maintenance tasks
- ✓ List ingredients, stock, parts lists and menus
- ✓ Input manual readings and received goods

Control and Alarm Outputs

- ✓ Control outputs based on counts, time delay or set points
- ✓ Alarm on high and low values for each sensor
- ✓ Local control and alarm capability
- ✓ Alarm and control action recorded on website
- ✓ Alarm and control alerts sent by email or SMS

Website Access

- ✓ All data sent to secure web server via mobile phone or satellite modem
- ✓ Access with username and password from any internet enabled computer
- ✓ Users can be enabled with different access levels
- ✓ All current and historical data can be viewed
- ✓ Alarms and events can be signed off or comments logged online
- ✓ Reports can be generated online
- ✓ Setup of DE20 from website by authorised users

The DE20 is an advanced automatic data logger and controller with combined manual input facility suitable for configuration as a complete record keeping tool. It transmits automatic data, from sensors, and manually entered data to a secure website where it can be viewed by users with the appropriate authorisation.

The DE20 is a powerful and fully configurable data processor. It can be set up from the website by a user with the appropriate authorisation. Parameters which can be configured include input type and range, alarm and control set points, alarm and control actions, reset actions, delay profiles, alert messages, recording time periods, reporting time deadlines, manual entry menu options, calibration data etc.

The DE20 uses an internal mobile phone modem to transmit data back to the internet so that it does not need to be connected to the client's network; thus avoiding security issues. Also, it means the DE20 can be used on mobile and remote applications as well as fixed sites.

There is no special software required to access the data from the DE20 so there are no future compatibility issues with changes to operating systems. Data will always be available from any computer running any system providing it has internet connection. This keeps staff in touch with the system whether at the office, when travelling or at home.



Inputs:

Type	5 x Analogue, 0–20mA, 4-20mA 12 x Counter, Timer, On/off change of state
Internal Battery Monitoring	Use analogue input 5 to monitor internal battery voltage.
Input Set-Up	User Specified via The DAN Web Site
Analogue Resolution	10 Bit (>0.1%)
Analogue Sampling Rate	Up to 19/Second. Max, min and average stored.
Digital Pulse Input Rate	0 – 10Hz

Output:

Relay Outputs	3 x SPST User configured N.O/N.C. - contacts rated 24Vdc @ 5A
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Field Hardware:

Real time clock	Included
Internal battery back-up	2 x 12V sealed lead acid, giving up to 40 hours back-up
Charging options	10 to 50V DC by power pack or solar direct connect facility
Housing	IP66
Housing dimensions	180 x 254 x 111 deep
Weight	3.5Kg

Operating Conditions:

Operating Temperature	-10C to +60C
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

Web Based Software:

Set Input Alarm/Control	Variable set points/time profiling & Delay Variable dead band 2 Alarm/Control points per input
Set alarm notification	Email and SMS option for alarm & reset with user scripted message
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
Manual Data Input Menus	User Set via website
Manual Data Tables	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

Onboard DE20 Software:

Alarm Recognition	Immediate for alarms based on input data
Reporting Period	Variable, normally 30 or 60 mins. (More frequent down to 5 Min possible)
Remote Reset	Enabled by specified phone contact
Data Storage	Up to 200 reporting periods
Instantaneous Data	Enabled by specified phone contact

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