

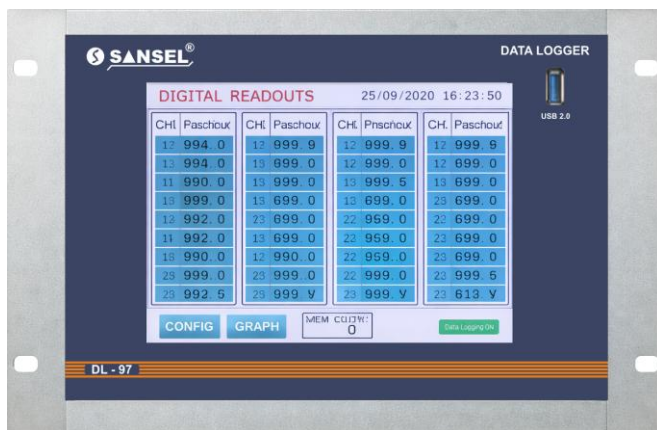
TOUCH SCREEN UNIVERSAL INPUT DATALOGGER

WITH PC COMMUNICATION INTERFACE & INTERNAL
MEMORY FOR DATALOGGING

MODEL : DL 96 & 97



DL 96



DL 97

Introduction

DL Series 8 / 16 / 32 / Channel universal touch screen Data Logger accept input RTD, Thermocouple, Voltage, Current. The logger suitable for temperature, Pressure, humidity, Level flow, RPM, voltage, Current, etc.,. The input is passed through suitable filters to eliminate unwanted signals. This is a high performance series equipped to handle virtually any process documentation in mechanical and system engineering. Cold junction compensation is standard feature in Thermocouple input.

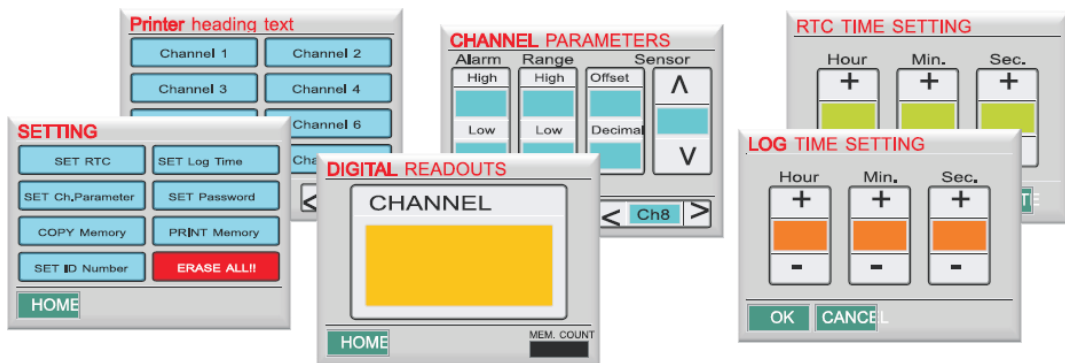
DL series Universal Touch screen data logger provides memory approximately 25,000 records, communication port for PC interfacing and user friendly customized software package. The DL series Universal Touch screen data logger is multi colour TFT display, USB 2.0 for pen drive data transfer, compact size, priced very competitive. The unit can be drawn from the front for easy servicing . Product quality certified.

Applications

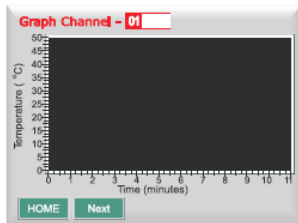
- ☐ Meteorology lab
- ☐ Pharmaceutical
- ☐ Ventilation air conditioning
- ☐ Food processing industries
- ☐ Testing and Calibration lab
- ☐ Research lab etc.,

User interface and control

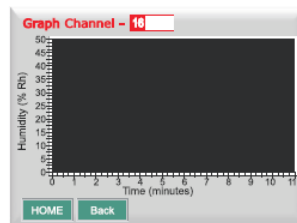
The DL series utilizes a high contrast multi colour active matrix TFT LCD display with a rugged touch screen. Use a finger on the board stylus, If you prefer to perform data entry and system navigation. The front panel is also fully complaint to IP65 for use in dusty or wet areas. An Intuitive icon driven menu system guides the users through easy to follow setup and control screens. The multiple display screens containing various combinations of indicator types such as horizontal and vertical bar graphs, large and small digital indicators and horizontal trends make setting up the parameters extremely simple.



Graphical view



Time (minutes)



The composite graphical view can display a online graph for a single input channel at a time. Individual channels can be displayed for detail analysis. This channel data is stored in memory with its time and date.

With external PC software the user is able to manipulate the graph to make it easy to see interaction between recorded channels, or change the colour schemes , Expand ,Compress, zoom and print. The same analysis tool used for multi-channel graph and used to scroll through data.

Tabular view

CH.	Readout	CH.	Readout
1			
2			
3			
4			

ALARM HISTORY			
No	Date	Time	Alarm

The digital readout display online data for multiple channels. Single channel data can be viewed with bigger digit size. The digit colour channel changes when the alarming condition occurs. The alarms event can be viewed with date and time stamp in alarm history screen. Display also shows the memory count which shows the status how more data samples can be stored in memory.

Recording data on storage media

Using the setup menu, the user can log the data in internal memory. If this memory is full the logged data can be transferred to external storage media connected on USB Port.

Record Rate	8 Channel	16 Channel
1 sec	9 Hrs	4.5 Hrs
10 sec	90 Hrs	45 hrs
1 min	540 Hrs	270 Hrs
10 min	5400 Hrs	2700 Hrs

The above table shows the number of maximum readings can be stored internal memory by changing record time after the above prescribed time the data must be transferred to USB storage media so as internal memory get free to store the new reading.

General Specifications

- ❖ Multi-Color Active Matrix Touch Screen Display
- ❖ Direct Universal Input Temperature / Voltage / Current
- ❖ Optional - Data through USB / RS485 / RS232 / Printer Port
- ❖ Optional - Ethernet / GSM Communication (5 Mobile Numbers, 3 Email IDs)
- ❖ Common Relay Output for Low & High Set Points
- ❖ Recording Rate 1 sec ~ 10 hours Selectable
- ❖ Data Logging ON / OFF & Data Erase Function
- ❖ User-friendly touch screen interface; DL-97 model supports live PV trend graph monitoring.

Specifications

Model	DL 96 / 97	
No.of channel	8 or 16 or 32 channel	
Sampling Rate	100 msec (per channel)	
Memory	20000 Readings (per channel)	
Data Download	USB Pen Drive / PC / Dot Matrix Printer	
Operating Voltage	100~240 VAC @ 50 / 60 Hz	
Bezel Dimension	DL 96	DL 97
	100 (H) × 110 (W) mm	195 (H) × 295 (W) mm
Cut out Size	92 (H) × 92 (W) mm	175(H) × 255 (W) mm
Unit Dimension	100 (H) × 110 (W) × 150 (D) mm	195 (H) × 295 (W) × 80 (D) mm
Display	3.5 inch Multi-Color Active Matrix Touch Screen Display	8 inch Multi-Color Active Matrix Touch Screen Display

Input	Type	Range	Accuracy
	Pt100	-199.9~300.0°C	±0.5°C
	K	-100~1200°C	±1.2°C
	J	-100~1000°C	±1.2°C
	N	-100~1300°C	±1.2°C
	T	-100.0~400.0°C	±0.8°C
	S	0~1500°C	±3°C
	R	0~1500°C	±3°C
	0~20mA	-1999~9999	±0.15%fs
	4~20mA.	-1999~9999	±0.15%fs
	0~1V	-1999~9999	±0.15%fs
	0~10V	-1999~9999	±0.15%fs
Weight (Approx.)	DL 96	DL 97	
	0.800 Kg	1.5 Kg	

NOTE: Due to continuous improvement published specifications may change without notice

Model identification & ordering code

Ordering Code	I/P	O/P	Aux O/P	Resolution
DL 96 – 8 channel	U-Universal T-Temperature C-RS485	S - RS485 R - RS232	None - 2x Relay E-Ethernet G-GSM P-Printer Port C-Cloud	None - RTD 0.1/TCs 1 °C 01 - RTD/K/J/N/T0.1°C
DL 96 – 16 channel				
DL 97 – 32 channel				

Standard Delivery

1. Basic Data Logger Instrument
2. Panel Mount Clamp Set

Optional

1. PC Interface Software
2. USB Converter (RS485/ RS232)
3. ISO/IEC 17025 Accredited calibration certificate



SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES LLP

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879
(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

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