



The **PSP Data logger (DG-DL-PSP)**, is a micro-controller based Data Acquisition System and designed to measure the PSP voltage. The unit has high input impedance and accuracy. This Instrument measures the input signal and displays the measured data on a Graphic LCD with multi-character alphanumeric data display, directly in engineering units. The GPS coordinates of the measurement site are also displayed and stored with the PSP value.

The data logger stores the collected pipeline survey data on a non-volatile memory. The data is always safe regardless of the battery status. The unit is ideally suited for soil potential (PSP) data logging for field PSP surveys and provided with a Windows Based software for TLP data downloading and PSP data retrieval.

The unit is hand held type conforming to IP67 and has built-in rechargeable batteries. A battery charger is supplied along with the data logger. Use of latest low power integrated circuits and high-speed ADC make the unit ideal for reliable, long term usage and accurate measurements.

The operating parameters like calibration factor, real-time, interrupter on/off time, are all keyboard programmable. The PSP data logger has  $\pm 10,000$  mV range and input impedance  $> 50\text{M}\Omega$ . The data logger may be synchronized with TRU Current Interrupter for accurate measurement.

PSP measurement during ON and OFF period is done, after the start of the respective period with a delay period of 200 msec. The highest reading obtained during ON period is memorized as 'LINE ON PSP' and lowest reading obtained during 'OFF' period is memorized as 'LINE OFF PSP'. At cased crossing locations, casing ON and OFF PSP measurements are memorized as "casing PSP". Combined PSP & casing potential report is generated.

Non-volatile memory is provided to store data and GPS parameters. Measurement data is stored in non-volatile memory, in a cyclic manner and remains intact even after removal of batteries.

Windows compatible software is provided to download TLP data to the unit and to retrieve measurement and TLP data, data to PC through the serial port for analysis. The unit has rugged handheld construction and suitable for field use.

## FEATURES

- ✓ Keyboard programmable operating parameters (calibration factor, real time, interrupter on/off time)
- ✓ Low power integrated circuits and high-speed ADC
- ✓ Ideal for reliable, long term usage and accurate measurements
- ✓ TLP number, chainage, distance, type, and location information of the pipeline is stored
- ✓ Measurement is taken in synchronization with TLP on/off period
- ✓ Data remains intact during replacement / removal of batteries
- ✓ RS-232C link to transfer stored data to PC for analysis
- ✓ More than 2000 of TLP data distributed in five sections may be stored
- ✓ A maximum of 5000 records of PSP measurement data may be stored in non-volatile memory of the system
- ✓ The records are stored in memory, in cyclic manner i.e. when 5000th record is written next record is automatically stored on record number one
- ✓ Interactive Windows based software to acquire stored TLP/PSP data and writing TLP data to logger

## SPECIFICATIONS

<b>Product Code</b>	<b>DG-DL-PSP</b>
<b>Category</b>	Data Logger
<b>Input Range</b>	± 10.000 V DC
<b>Sampling rate</b>	>50 samples / sec
<b>Input impedance</b>	50 M or higher
<b>Measurement accuracy</b>	± 1% or better
<b>Resolution</b>	0.5 mV
<b>Screen type</b>	Graphic LCD 128 x 64 without touch facility
<b>Keyboard</b>	4x5 alphanumeric keyboard
<b>Charging indicator</b>	Green LED
<b>Calibration Factor</b>	Programmable by Keyboard
<b>PC communication port</b>	Provided
<b>GPS interface</b>	Provided
<b>Operating temperature&gt;</b>	0 to 50 °C
<b>Power</b>	Built-in batteries
<b>Battery life</b>	>8 hrs. with fully charged.
<b>Leather carrying case</b>	Provided
<b>Records capacity</b>	>= 5000
<b>Dimension</b>	115 x 50 x 250 (approx.)
<b>Weight</b>	700 gm. (approx.)
<b>Applicable Standards</b>	IP67
<b>Applications</b>	PSP Field Survey

## Ordering Information

**Item:**

PSP Data Logger (With GPS)

**Category:**

Data Logger

**Unique Code:**

DG-DL-PSP

**Accessories:**

- Battery Charger
- Operating Manual

**Customization:**

Any customisation request to be made at the time of placing the order

**Order Placement:**

- Via the Website
- Via E-mail
- Via Phone

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