



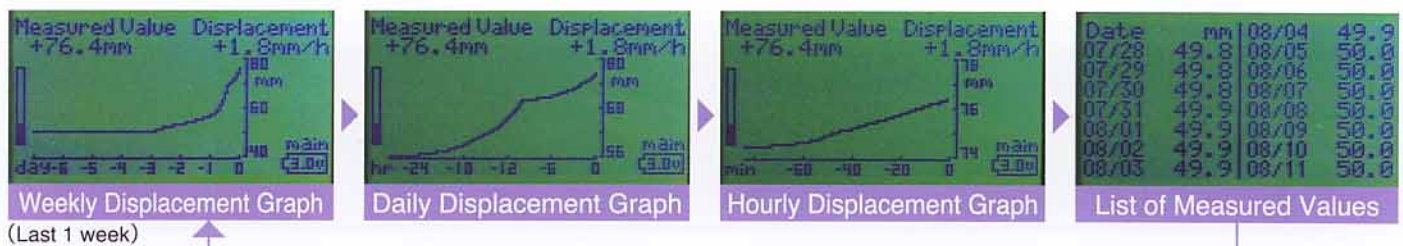
The SLG-30E Extensometer Data Logger with LCD was developed to allow users to check and judge extensometer data on site and take timely action. The logger is provided with a liquid crystal graphic display for checking data and has been designed with an emphasis on ease of operation, reduced power consumption, and environmental durability. The unit has a data collecting function and alarm output function and was designed for maximum reliability, practicality, and versatility. It can be used to observe changing conditions and support intervention decision-making, not only at landslide sites, but also at potential slope failure and collapse sites.

Ready for work at the flick of a switch!

Extensometer Data Logger with LCD

Liquid Crystal Display

With repeated pressing of the LCD control button, the display toggles through data and graphical output in the following sequence:



Extensometer enters the digital era

Advantages of the SLG-30E over conventional drum recorders:

① There is no changing of paper rolls

② Extended observation period is possible

③ False alarms are reduced

Features of the Equipment

1. Graphical Display

The graphical zoom-in function can view a graph of displacement over the past day or the past hour. A list of daily displacement values recorded at 0:00 every day over the past one month is also displayed.

2. Easy Operation

The monitoring and data collection units are started simply by inserting a battery. The displacement-per-hour alarm is set with a rotary switch, so complicated settings are completely avoided.

3. Low Power Consumption

The main lithium battery and sub-lithium battery permit observations to be continued for 7 months or longer. In addition, the battery voltage can be checked on the in-built liquid crystal display.

4. Recording and Data Collection

Data measured every minute can be recorded for 10 days, or data measured hourly can be recorded for 317 days. Instantaneous, average, minimum, and maximum values per interval are recorded.

5. Alarm Function

By setting the alarm signal to be triggered only when the measured value remains in excess of the alarm threshold for 2 seconds or more (the actual interval can be set by the user), false alarm activation can be reduced. If both the main and sub batteries are removed for 30 seconds or more, the calculated displacement is reset to zero.

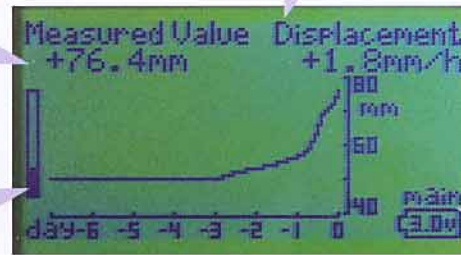
Data Displayed on the Liquid Crystal Display

The default display shows a graph of displacement at 2-hourly intervals for the preceding week.

The current extension reading is displayed. Displacement is calculated from changes in this value. It can be set between zero and 300 mm and is adjusted manually if the remaining measurable displacement in either direction is deemed inadequate.

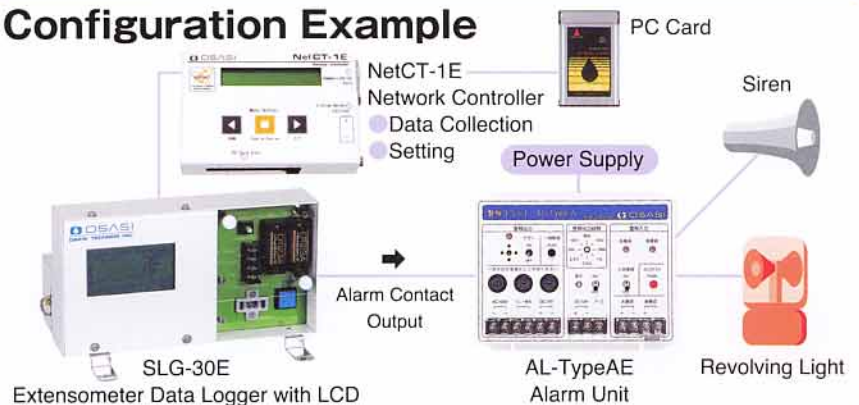
The remaining measurable displacement is displayed in the bar at the left of the graph.

The displacement for the current hour is displayed in the top right of the screen. If both the main and sub batteries are removed for 30 seconds or more, the calculated displacement is reset.



Battery condition indicator.

Configuration Example



Specifications

- Name/Extensometer Data Logger with LCD
- Model/SLG-30E
- Measurable Range/0 to 300 mm
- Wire Pull-Out Length/1 m
- Resolution/0.1 mm
- Linearity Error/±0.8 mm or less/200 mm
- Repeat Error/1 mm or less(reciprocating 100 mm)
- Observation Interval/1 second
- Liquid Crystal Display
 - Display Dot/128(horizontal) x 64(vertical)
 - Displayed Data/Weekly Displacement Graph, Daily Displacement Graph, Hourly Displacement Graph, List of Measured Values (sequentially displayed by repeated pressing of the LCD control button)
- Recording
 - Recording Interval/Dual system(every minute and every hour)
 - Recorded Data/Instantaneous values on the minute or hour, average values, minimum values, and maximum values per recording interval
- Alarm
 - Type of Alarm/Hourly Displacement Alarm
 - Alarm Setting Range/Set with a rotary switch
 - No Alarm, 1 mm, 2 mm, 3 mm, 4 mm, 5 mm, 6 mm, and 7 mm
 - Alarm Confirm Time/2 seconds
 - (setting is changeable in the range of 1 second to 10 seconds)
 - Alarm Output Form/Built-in Alarm Contact Output
 - (Non-voltage Contact)
 - Alarm Contact/Non-voltage A Contact or B Contact Output
 - Alarm Contact ON Time/10 seconds(setting can be changed to continuously ON or between 1 second and 30 seconds.)
 - Alarm Contact Capacity/DC30V500mA(Max.), AC100V150mA(Max.)
- Operating Temperature Range/-20°C to 55°C (No condensation)
- Outside Dimensions/122(H) x 156(W) x 210(D)
 - (Dimensional Tolerance:±1mm)
- Weight/Approximately 1.7 kg



We pass on voices of the earth
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* Please note that specifications for the equipment are subject to improvement or change without notice.

* For further detailed specifications, please visit our homepage at <http://www.osasi.co.jp/>