

digi-Slough Sloughmeter



Geosystems **Sloughmeter** combines a proven and robust cable design using Geosystems digital technology applied to make the best possible fall detector.

When grouted into boreholes intersecting the prone area and connected to our four channel logger the unit provides continuous monitoring of the area.

2 compatible modes of operation:

1/ Instant check: digi-Slough includes a display box equipped with as many LEDs as there are cables. The LEDs are provided to sequentially display any sloughing detected, upon simple pressure on a switch.

2/ Continuous logging: with four channel logger, digi-Slough allows easy continuous monitoring of all types of underground areas that might see sloughing or rock falls and that warrant close surveillance. Data can be viewed after the fact or in real time if a connection to surface has been established.

Features

- ▲ *10 LEDs for instant visual checks*
- ▲ *Continuous and simultaneous data logging possible*
- ▲ *Range: -55 °C to +125 °C*
- ▲ *Up to 10 points*
- ▲ *Custom lengths*
- ▲ *Microcontroller for output of unique instrument ID*
- ▲ *On-board digital temperature sensor for additional information*
- ▲ *Temperature reading included in each data string*
- ▲ *Smallest electronics head (25mm diameter, 220mm long)*
- ▲ *Borehole Diameter 50mm*
- ▲ *High survivability electronics*
- ▲ *Easy to install and maintain*
- ▲ *Arrives on site fully assembled*

Operation

Specifications



- ▲ **Core Technology:** Temperature compensated Variable inductance displacement sensor: 0-125mm range. Digital Temperature sensor
- ▲ **Output Signal** -RS485 with transmission up to 500m over 2 x tp.
- ▲ **Output format :**
:YP,150836004,d3TEMP,36,+25.5,C,+25.6,C,+ 25.7,C,.
- ▲ **Disp Resolution** - 0.01mm.
- ▲ **Disp.Linearity** - typically 0.5% F.S
- ▲ **Disp Accuracy** - typically better than 1mm.
- ▲ **Temp. range:** Temp: -40 to 125°C
- ▲ **Temp Resolution:** 0.1°C
- ▲ **Temp Accuracy:** +/- 2°C Temp
- ▲ **Temp. coeff for disp sensor:** <+/- 0.01%/°C

To order, please specify:

- ▲ Number of detection points: up to 10
- ▲ Custom Location of detection points
- ▲ Lead wire length before the first point

```
2016/08/03 13:00:20,1603-42,91,011,+ 33.6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
2016/08/03 14:00:20,1603-42,91,011,+ 33.6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
2016/08/03 15:00:20,1603-42,91,011,+ 33.6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
2016/08/03 16:00:19,1603-42,91,011,+ 33.6, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0,
2016/08/03 17:00:19,1603-42,91,011,+ 33.6, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0,
2016/08/03 18:00:19,1603-42,91,011,+ 33.6, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0,
```

*Illustration 1:
How data will appear
from the data logger,
See on Line 4 when the
last 3 points are lost.*