

SENSOR-LOGGER for UNDERGROUND (SLUG-4)

Features:

- ▲ Inexpensive and versatile data-logging solution
- ▲ Small size.
- ▲ 512kb of FLASH memory (Upgrade to 1Mb on request)
- ▲ Stores 24,000 16 bit words of data
- ▲ 9V Battery powered lasts up to 2months
- ▲ Stores up to 2 month's data
- ▲ Reading rate 1/hr, 3/day, 1/day
- ▲ Download data Underground using PalmOS SlugSYNC™
- ▲ Download data using same software as SLUG
- ▲ Extremely low cost
- ▲ 4 instruments: up to 40 channels
- ▲ Wireless Options available soon
- ▲ Plug & SLUG

Previously so called "data-loggers" have been required to do additional tasks such multiplexing and A/D conversion. To reduce the cost/instrument of this technology, designers enable several instruments to be logged at a single data-logger, adding still further to the complexity, size and cost of the device. With complexity comes the requirement for configuration (both hardware and software) and associated training. The result is an expensive, complex and bulky solution completely unsuited to mining deployment.

SLUG-4 changes the Rules

All that changes with the SLUG-4. This is possible because all YieldPoint's sensors transmit digital signals that require the minimum processing prior to writing into FLASH memory. SLUG-4 can monitor a cluster of 4 instruments of any type. No configuration is required since YieldPoint's digital sensors inform SLUG of critical information such as their SensorID, SensorType and the number of channels - just 'plug & SLUG'. Also, by minimizing the cost of a individual data-logger, high risk deployment close to blasts is viable and lead-wire (the most vulnerable part of any sensor) length can be minimized. If the SLUG-4 is destroyed during deployment, the replacement will cost probably less than 25% of a typical datalogger.



SLUG-4 is powered from 2 9V batteries. By putting the SLUG-4 into SLEEP mode between measurements the battery can last up to 2 mos. Even then if battery power is lost the data stored in slug will be retained. 512kb of memory will allow an instrument with up to 10 channels to be monitored 3 times/day up to 2 mos.

When the SLUG-4's memory is full it can be configured to overwrite beginning at the first memory address or just stop logging. Data from the SLUG-4 is output into 4 separate CSV text files, 1 for each port. These can easily be imported into Microsoft Excel or any database package, and is fully compatible with YieldPoint's MineScope database.

Advantages:

- ▲ Low cost
- ▲ Tough and rugged
- ▲ Rapid deployment
- ▲ No configuration
- ▲ Reduce lead-wire lengths
- ▲ Data output in real world units into text files

Specifications:

Dimensions: 116mm x 65mm x 35mm

Battery: 2x9V

Memory: 512kb FLASH memory 12,000 16bit samples

Storage: 16 bit resolution

Frequency: 1/hr, 3 rdgs/day, 1 rdg/day

Duration: 2mos (3 rdg/day), Alkaline battery.