

## Levellogger®

Model 3001

### Levellogger Gold Memory

Memory: uses superior EEPROM memory, which is more stable than Flash. It gives 40,000 readings of level and temperature, set up in individual logs.

Default Memory is Circular Slate with a wrap around feature. Each new log starts in the memory block immediately after the last recording of the previous log and carries on for the full 40,000 memory blocks. Previous logs will be written over only at the end of the logging session and readings will stop and not write over any of the current session.

Continuous can be selected if recording in linear mode. This allows the logger to wrap around, and eventually write over the beginning of the current log. Not available in Schedule or Event.

On-Board Backup gives a separate security backup of the last 1,200 readings in FRAM memory, which can be accessed by a utility program in rare case of failure of normal memory.

### Downloading Options:

All Data – everything in current log, since last start

Append Data – checks logger ID and date stamp and downloads only new data to an existing file. File must be open first.

Partial Download –user selects a number of hours before last logged time for download.

Data Recovery: allows the previous log to be retrieved, in case the logger has been restarted before data has been downloaded.

### Sampling Options:

Linear in steps from 0.5 seconds to 99 hours. Has choice of Slate or Continuous.

Event allows a % change from 0.1% up to 25% of the full range of the logger to be chosen. Readings will be checked at the chosen time interval and discarded if not  $\geq$  the percent change selected, but recorded if the condition has been matched or exceeded.

Schedule allows the user to choose up to 30 recording intervals with frequencies in seconds, minutes and hours and duration up of seconds, minutes, hours, days and weeks or pauses. The program shows an ongoing total of the run time and the number of readings still available.

Templates: can be saved with all field data and with schedules, for future use.

### Utilities:

Self-Test Diagnostic: can be used to check the internal health of the Levellogger, checking: Program, calibration, backup and logging memories, pressure transducer, temperature sensor and battery voltage. It also allows the user to do a Memory Dump of everything available.

Firmware Upgrade: allows upgrading so that problems may be fixed and future improvements may be available to older Levelloggers, without need to return it to Solinst.

### More New Features:

Multiple Language Capability: allows other languages to be programmed into the software.

Barometric Compensation: now more accurate, due to better Barologger algorithms based on air rather than water pressure.

Real Time View: shows real-time readings, temporarily recorded in software, at chosen sampling intervals, separately from main logging. Individual data points can also be selected for recording at any time and all can be saved by exporting data, if needed.

Corrosion Resistant Coating: provides enhanced corrosion resistance, using ceramic Zirconium Nitride (ZrN). The coating is a Plasma Vapor Deposition (PVD) that forms a chemical bond with the stainless steel body.

