

"The Standard of the Industry"



# SLOPEMASTER

Inclinometer

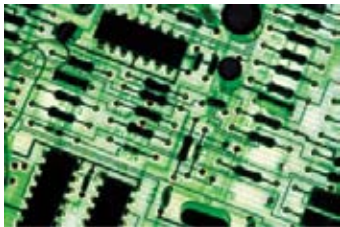


Improperly installed or sunken lines often results in rapid pipe failure. Failures may include the accumulation of dangerous materials, debris, early fatigue, fractures, and open joints. In water waste lines, it can also include the heavy accumulations of grease, increased levels of hydrogen sulfide gas, foul odors, increased bacterial growth, internal/external leakage, corrosion and reductions in flow.

The heart of the Slopemaster system is a vertical sensing, single axis, inclinometer mounted on a single internal circuit board. It's accuracy, rugged construction, reliability, and wide range environmental parameters meet the special requirements necessary for verification of slope measurement in industrial and utility pipelines.

The Slopemaster operates with CUES multi conductor or single conductor TV inspection systems. The simultaneous display of the grade information with the live television picture precludes possible misinterpretation of slope due to debris, offset joints, etc., which is a restriction that's often found with measurement-only type verification systems.

A CUES inclinometer-equipped camera has a tilt-angle measurement range of +/- 5 degrees with a typical accuracy of 0.2 degrees. It is mercury free and does not contain any hazardous materials. The Slopemaster can be used with many CUES data display and recording systems. Data systems are available for automatic slope data collection, display, recording, and plotting.



The new CUES Inclinometer has been redesigned to read and transmit pipe grade variations in the range of +/- 5 degrees (+/- 8.7% grade) from horizontal with an error of +/- 0.2 degrees (0.3 % grade) while providing greater stability over a wider range of conditions.

## Features & Benefits:

- The system is supplied with a pipe grade verification system to detect and record variations in pipe angle from true horizontal.
- The inclinometer is able to read and transmit pipe grade variations of +/- 5 degrees from horizontal (+/- 8.7% grade) with an error of +/- 0.2 degree (0.3 % grade).
- Depending on the data system used in conjunction with the inclinometer, the data shall be able to be displayed in a numerical or graphical format, which may be printed or exported to an external database.
- The inclinometer includes a vertical sensing, single axis, precision sensor mounted internally to the camera.
- The Pipe Grade Verification System (Inclinometer) can operate with all CUES pan & tilt and pan, tilt & zoom cameras

### Disclaimer:

Due to the many varying factors involved in performing an inclination assessment of a pipeline (condition of transporter, speed of inspection, pipe debris, etc.), a CUES inclinometer equipped camera is not intended to take the place of a survey tool, but to be used as a reference to identify potential problem areas during an inspection.