

BI-MIX-VISION

Measuring System for Soil-Mixing up to two head



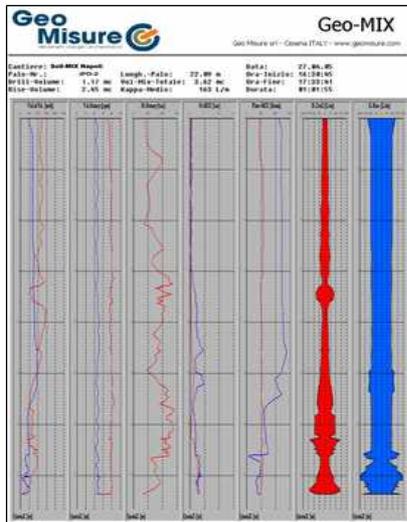
BI-MIX-VISION measurement system is a new generation device used for the drilling and grouting parameters in the technology of soil mixing with two head. It is based on Windows unit with a 7" color display. The system allows to measure and store the following parameters:

DRILLING PHASE	RISING PHASE
Drilling depth Advance speed Rotation speed 1 and 2 Hydraulic pressure rotation couple 1 and 2 Drilling mixture pressure 1 and 2 Injected mixture flow rate 1 and 2 Injected mixture volume 1 and 2	Drilling depth Rising speed Rotation speed 1 and 2 Injected mixture pressure 1 and 2 Graph injected mixture pressure 1 and 2 KAPPA instantaneous rate 1 and 2 Graph of KAPPA parameter 1 and 2 Injected mixture flow rate 1 and 2 Injected mixture volume 1 and 2 Automatic rising

BI-MIX-VISION is installed into an aluminium robust small-size container; the User Interface includes a 7" colours display, with high brightness and a waterproof and scratch-resistant polycarbonate keyboard. The connection to the field sensors is made possible through a multiple connector which allows for a fast disassembly and connection.

Automatic control of the rising speed dependent on K constant value (quantity of injected mixture per meter) or on constant rising speed are operated by using an analogue output interfaced with the driller rising engine.

FORA-VISION is already equipped with the capability to be connected to a 3G, or wireless or ethernet network so that it could be remotely monitored giving the chance to load programmed drills into the system, download data collected or run maintenance tests and procedure.



Data is stored in the internal back-up memory and then passed to a removable USB Stick to be moved to any PC. Once in the PC, by using **VISUAL-SGD** software, you can carry out the statistical analysis of stored data during the operation, as well as other quality controls, including the printing of the records with the typical graphs of each drilling executed. You can customize the printing configuration by modifying the display scales, the printing colours, etc. according to your needs.

Besides showing the records of the measurement values previously listed, the Report of each concrete rode identifies the following general data: the Building Yard, the Rode Number, the Max. Depth, the Date, the Start and End Time, the Duration, the Total injected and rising Concrete Volume, and the Total concrete volume, as well as the average "K" rate.

It is also possible to display and print a day by day report with the main information related to the piles executed. The sensors wiring system is composed of two boxes. The first one is integrated to the rotary head; the depth sensor, the torque measurement sensors (1 and 2), the concrete pressure/volume sensors (1 and 2) and the RPM sensors (1 and 2) are connected to this box. A second box which includes the leakage protection circuits is installed into the cabin; the flow rate and volume sensors, the central unit, the rising control output and the power supply are connected to this block.



Main technical characteristics

- ✓ 7" display with polycarbonate keyboard
- ✓ USB slot used to download data stored
- ✓ Mechanical protection: IP65 (DIN40050)
- ✓ Power: 24 V DC (18-36V), 8 W
- ✓ Working temperature range: -10° C + 60° C
- ✓ Connector oriented desig