

# FORA-VISION

## Drilling Parameters Measurement System (DAC TEST)



**FORA-VISION** measurement system is a read-out and sensor device for the drilling parameters used in **perforation technology (DAC test)**.

The system measures and store the following parameters:

<b>DRILLING PHASE</b>
Drilling depth Advance speed Rod torque rotation (bar and N*m) Case torque rotation (bar) Rotation Speed Drilling fluid Pressure (air or water) Thrust Infeed force (bar and N) Rotation gear detection Specific energy (J/m <sup>3</sup> ) Clam status

**FORA-VISION** can also manage all the usual operation needed during the job, like hole flushing or changing of the rods. The central unit includes a push-button to disable depth measuring when the change of the drill rod is required. This changes of the rod can also be performed automatically using a pressure switch.

**FORA-VISION** can be programmed to calculate the Drilling Energy complex parameter (SED) during the perforation, starting from the single measured parameters. SED is very useful to understand soil type found during the perforation and to take geological considerations during the drilling phase.



Data can be simply downloaded from **FORA VISION** to PC using a standard USB stick.

You can show graphics of the data and print it using a simple software called **VISUAL-SGD** installed into a standard PC. With this software we can also decide what we want to insert in the print report and what we don't want to show depending on the customer needs.

**VISUAL-SGD** is also usable to check data acquired in order to perform a quality check of the job for each drilling performed.

**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. The system is even able to be connected to a local control room that control and receive in real time all the data collected by the logger and can monitor more than one system at the same time.

### 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 design