

The PIEZO-pro software

The **PIEZO-pro** application allows the User to save, process and analyse the data resulting from piezometric and associated measurements. All the data is represented in a fairly intuitive style. Implemented graphic interface offers complete layout configuration as well as the data presentation units.

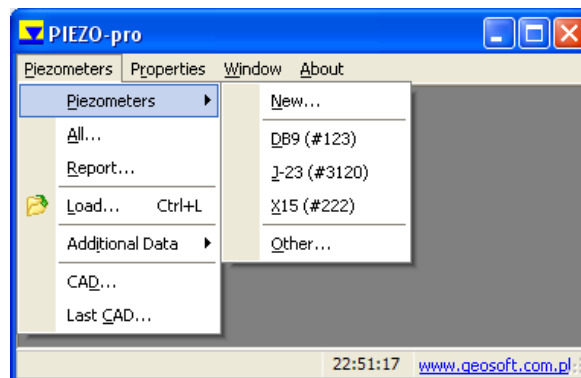
The **PIEZO-pro** application is an excellent and universal tool, serving particularly the purposes of large corporations, handling a variety of piezometers, due to database and network structure. Options of storing and analysis of associated measurements, including water level behind the dam, makes **PIEZO-pro** particularly useful for monitoring of dams.

Fundamental benefits resulting from the **PIEZO-pro** application and allowing the user to recognise it among other products available on the market are as follows:

- **Storage of measurement results in the databases kept in a server or in local databases.**
- **Availability of a server-based release co-operating with MS SQL Server and Oracle Database.**
- **Various unit systems.**
- **Various types of piezometers.**
- **Storing and analysis associated measurements like:**
 - **location of the piezometer**
 - **temperature of water**
 - **water level behind the dam**
 - **external loads**
- **Included import procedures of data files generated by electric piezometers**
- **Manual data input included**
- **Very high level of data safety.**
- **Very quick simultaneous access to all the measurements.**
- **Easy operations on a simple GUI.**
- **Comprehensive options to adapt the printouts to serve the user's purpose.**
- **Links to the maps: option to present the piezometers automatically against a map background (DWG, DXF).**
- **The option to edit and printout vectorial maps (DWG, DXF).**
- **Included contouring tools with analysis options.**
- **Map interface allowing selection of piezometers directly from map.**

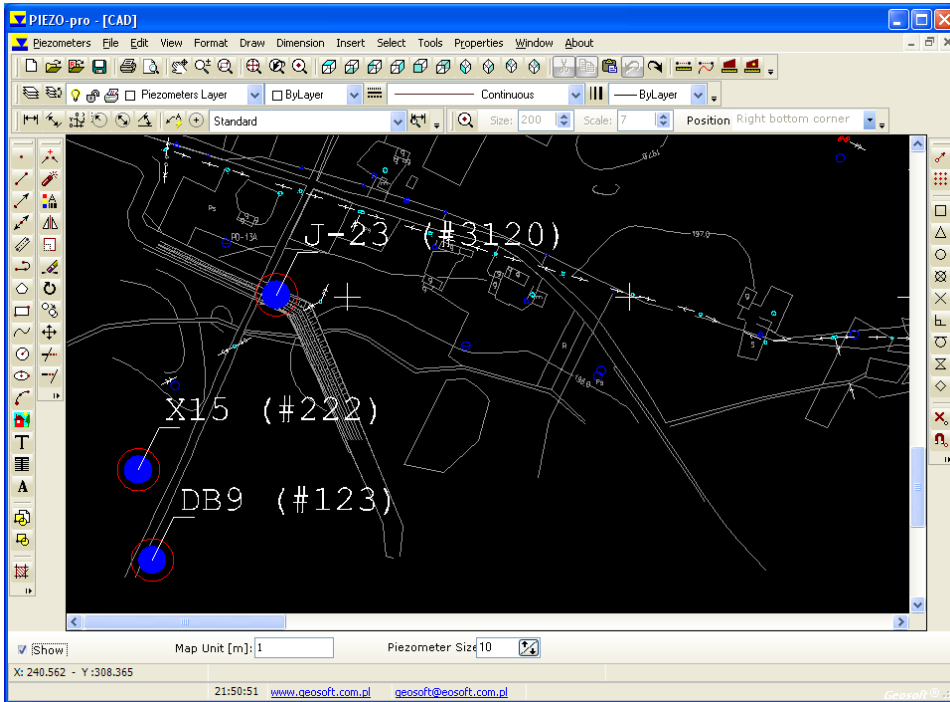
Selection of piezometers

Piezometers can be selected from the list, activated from main menu, as well as directly from map.



Main menu

Map options

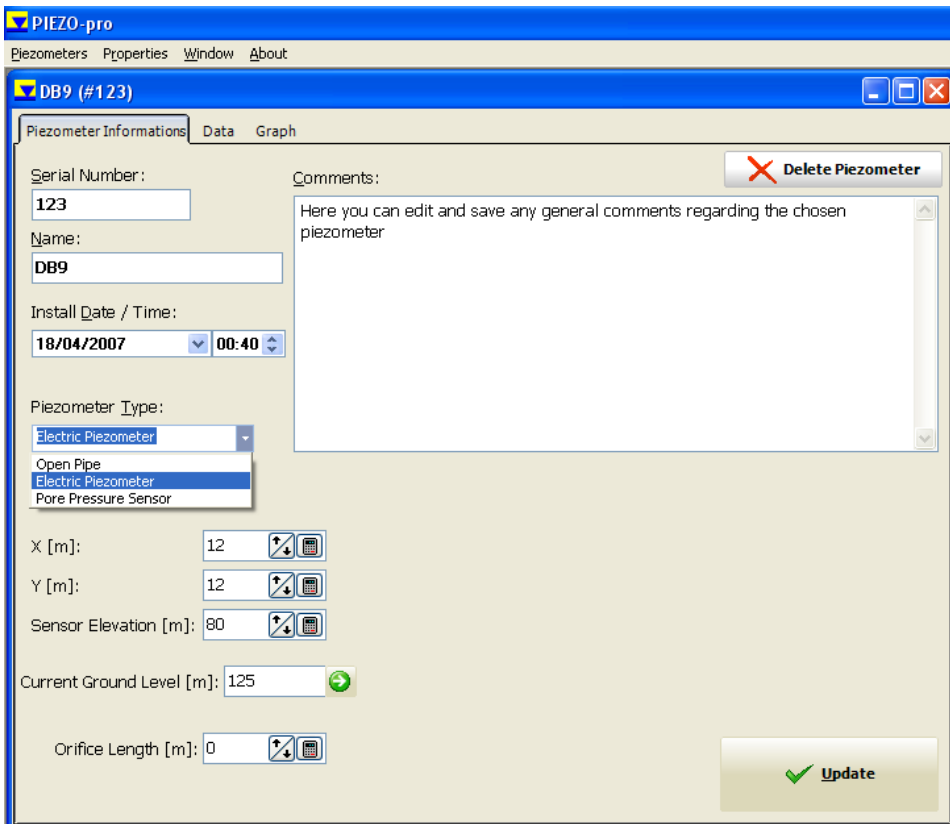


CAD type map is generated automatically on basis of co-ordinates of piezometer columns saved in database.

DWG and DXF type map can be used as background.

Piezometers can be selected directly from map, just by right click on the relevant symbol on map.

Data types



PIEZO-pro allows to store piezometer data from electric pressure sensors and open pipe type.

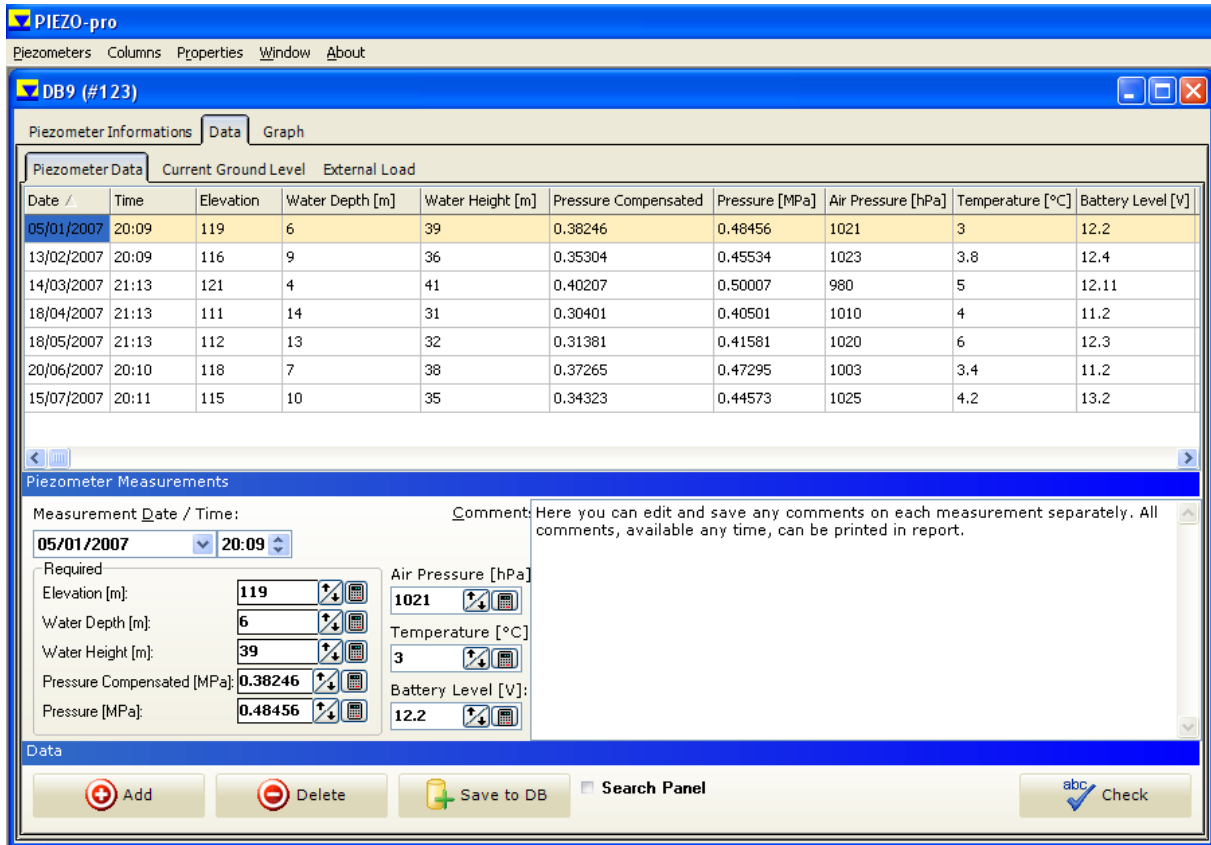
General piezometer column description includes standard points like:

- Serial number
- Name
- Installation date
- Co-ordinates

and also **comments**, which can be added to report.

Serial number, used in case of electric piezometer, allows automatic import of data.

The PIEZO-pro software



Piezometer measurements and data types

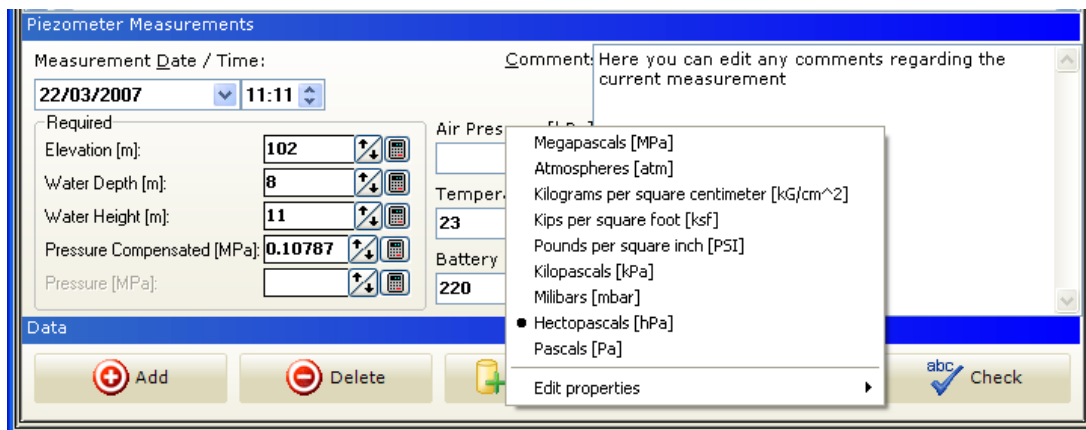
Pressure of water can be measured, imported and presented in different ways, as :

- Elevation
- Water depth according to ground level
- Water height according to chosen reference level
- Water pressure

The air pressure is also saved in database and taken into consideration.

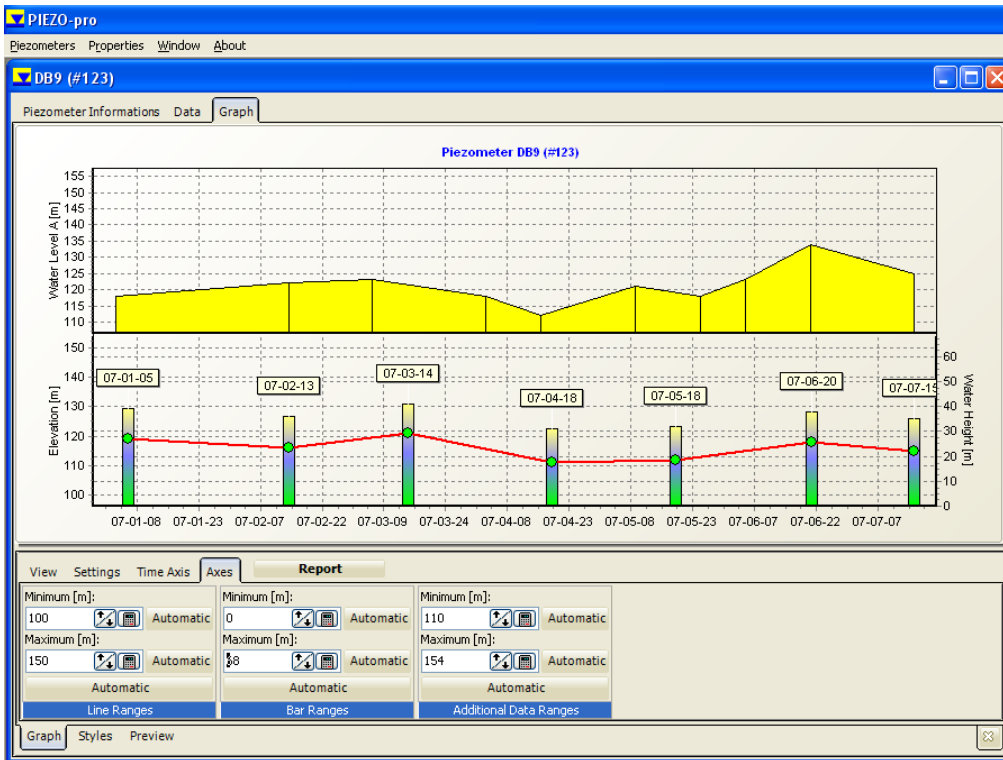
Unit management

PIEZO-pro has implemented efficient **Unit Manager**. Any kind of unit can be used just by selection from list



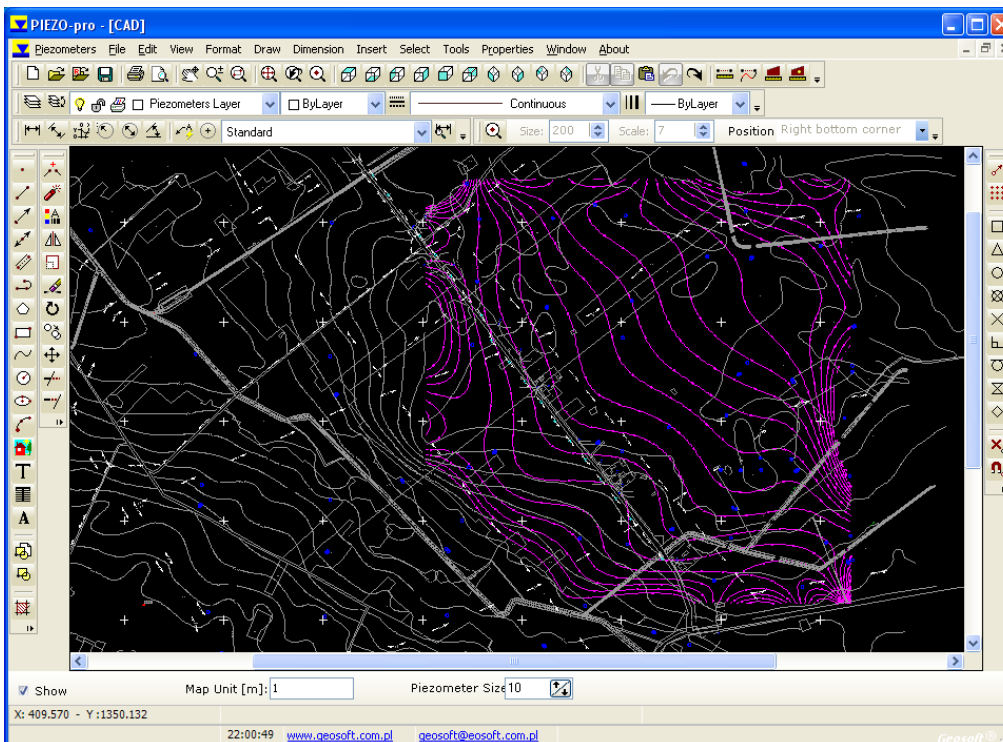
Different types of measurement and units. Open Air Pressure unit list.

Monitoring of dam surroundings and construction sites.



Common plot of water level in chosen piezometer and water level behind the dam.

Contouring tools



Contours generated in selected area.

PIEZO-pro allows to store not only standard piezometer measurements, but also associated parameters like external load and water level behind the dam. With these options **PIEZO-pro** is particularly useful for monitoring of dam surroundings and construction sites.

Analysis of variations of piezometric measurements and associated parameters can be performed together, so all relations between water levels/pressures in piezometer columns and external inducements can be easily detected.

PIEZO-pro has implemented advanced contouring procedures. It is possible, for instance, to plot contours of water level on freely chosen day and contours of variations of water level for chosen dates.

Contours can be limited to freely limited area, so it is possible to take into consideration such structures like geological faults, rivers etc. Many different contours can be generated for the same or different areas on the same map.