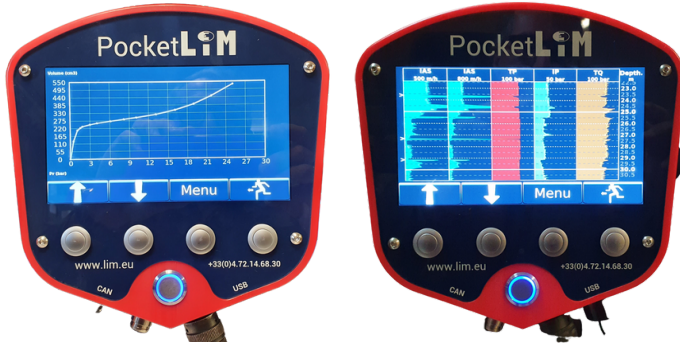


# LIM SOLUTION FOR SITE INVESTIGATION

Drilling parameters  
L.Menard pressuremeters  
Data processing software in the cloud

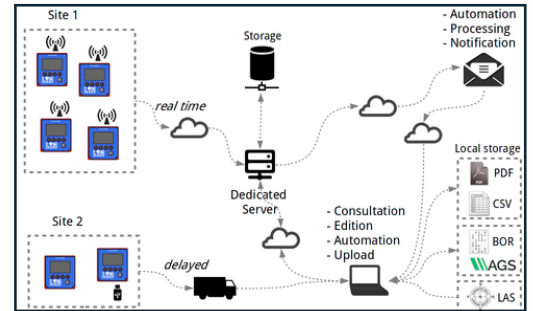


## PocketLIM GEOTECH



Recording of drilling parameters vs depth and acquisition of L.Menard pressuremeter tests.

## LIM@mail



Automatic datafiles download with data pre-processing

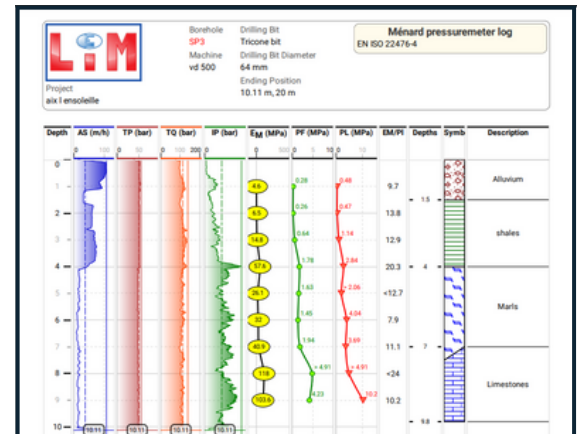
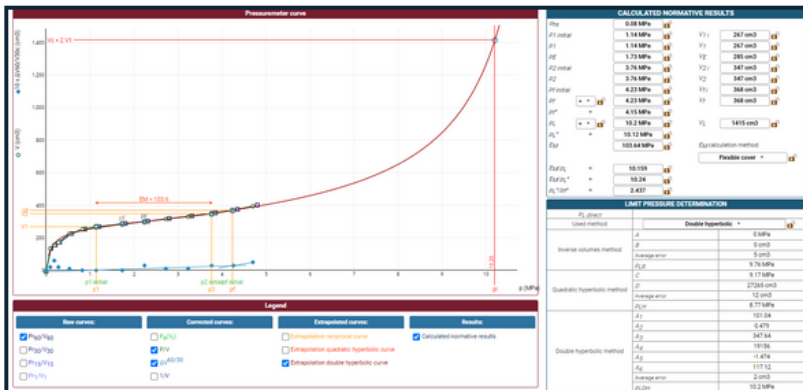
## PressioLIM & PressioLIM AUTO - Menard pressuremeters



Performing pressuremeter tests following standard EN ISO 22476-4 (L. Ménard)



## GEO-LOG<sub>4</sub> - Geotechnical data processing



## PRESSIOMETER TESTS ACCORDING TO THE EN ISO 22476-4 STANDARD

### Non automatic PressioLIM with digital display.

#### Main specifications:

- ✓ Maximal pressure of use : two available versions
  - PressioLIM 50 bar
  - PressioLIM 130 bar
- ✓ Integrated in a transport case;
- ✓ Prepared for use with a LIM data recorder;
- ✓ Data display on 128 x 64 OLED monochrome digital screen;
- ✓ Type of electronic output signals: CANBUS LIM;
- ✓ Weight and size: 23Kg - 62 x 49 x 22 cm;
- ✓ Full screen-printed aluminum front panel;
- ✓ High precision pressure sensors;
- ✓ Magnetostrictive displacement electronic volume sensor;
- ✓ Verticality adaptable tripod for all field conditions.



### Automatic PressioLIM

#### Main specifications:

- ✓ Use with a LIM data recorder (PocketLIM or MiniLIM);
- ✓ Maximal pressure of use : two available versions
  - PressioLIM Auto 100 bar
  - PressioLIM Auto 130 bar
- ✓ Regulation of pressures via pilot operated servovalves;
- ✓ Constant control of variables to keep the device security in case of overpressure or too important volume;
- ✓ Two operating modes, fully automatic and semi automatic;
- ✓ Data download via USB, GPRS 3G & 4G and WIFI;
- ✓ Integrated in a transport case;
- ✓ Weight and size: 26Kg - 62 x 49 x 22 cm;
- ✓ High precision pressure sensors;
- ✓ Magnetostrictive displacement electronic volume sensor;
- ✓ Verticality adaptable tripod for all field conditions.

### RECORDING IN REALTIME OF DRILLING PARAMETERS AND MENARD PRESSUREMETER TESTS

#### PocketLIM-GEOTECH

##### Technological advantages:

- ✓ CANBUS technology, CAN open protocole;
- ✓ GPRS 3G/4G modem and Wifi module for data transmission and information in real time;
- ✓ Possibility of real-time display on a remote screen (laptop, tablet, smartphone);
- ✓ Multi-application data recorder, drilling parameters and pressuremeter tests.

##### Drilling parameters recorded vs depth:

- ✓ Instantaneous Drilling (Advance) Speed or Penetration Rate;
- ✓ Bit (Tool) Pressure or Feed Pressure;
- ✓ Injection Pressure of the drilling fluid;
- ✓ Rotation Torque Pressure;
- ✓ Holdback Pressure;

##### Acquisition of Menard pressuremeter tests :

- ✓ Real-time display of test and creep variables.
- ✓ Real-time display of the raw pressuremeter curve and table of test values;
- ✓ Recording of the volume change at 1, 15, 30, and 60 sec in accordance with European standard EN ISO 22476-4;
- ✓ Control of pressuremeter tests in automatic and semi-automatic modes with the PressioLIM Auto.

##### Other geotechnical applications:

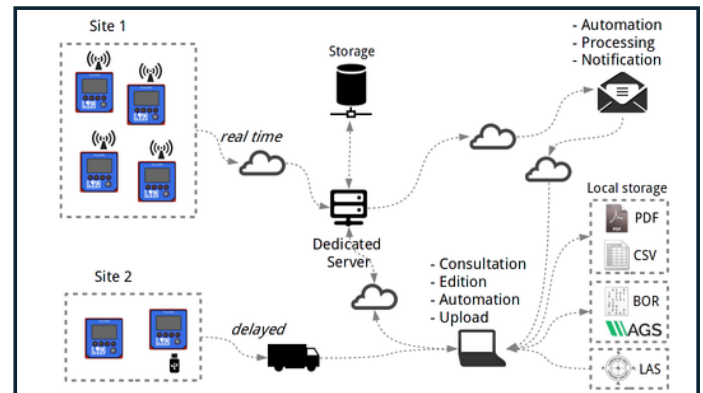
- ✓ Recording of dynamic probing tests;
- ✓ Recording of Lugeon water tests (Packer tests).



### AUTOMATIC DOWNLOAD AND PRE-PROCESSING OF RECORDED LIM DATA

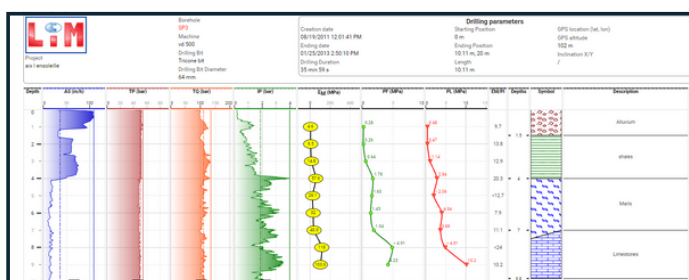
#### LIM@mail

- ✓ Web application in the cloud;
- ✓ Management of PocketLIM data file transmission over the Internet (3G / 4G, Wifi), with synchronization;
- ✓ Automatic pre-processing with generation of the PDF graphic report;
- ✓ Resending of data files in BOR, CSV, AGS, LAS and PDF formats to selected email addresses;
- ✓ LIM data recorders management;
- ✓ Management of user email addresses;
- ✓ Listing of the files received;
- ✓ Summary of receptions;
- ✓ Choice of the type of attachments;
- ✓ Delayed sendings.



### WELL LOGS LAYOUT CLOUD BASED SOFTWARE

#### GEO-LOG<sub>4</sub>



- ✓ Drilling parameters;
- ✓ L.Menard pressuremeter tests;
- ✓ Lithological and geological borehole sections;
- ✓ Technical section of the borehole (drilling methods, tools, fluid, casing,...);
- ✓ Water levels;
- ✓ CPT, Dynamic probing data;
- ✓ Accessible and intuitive application;
- ✓ View, edit and display data on screen such as in the final report;
- ✓ Fully graphical report templates creation and customization (headers & tracks);
- ✓ Menard pressuremeter tests automatic data processing according to the latest ISO standard (EN ISO 224764).