

Porosimeter



Description:

The PERM Inc. Instruments Porosimeter is used for Routine Core Analysis (RCAL), in which effective porosity (interconnect porosity) and grain density of a particular core plug are determined using an inert gas with a small molecular size, such as helium. As helium has the smallest molecular size among other inert gases, it can easily penetrate the small pores of the core plug. The basics of the porosity calculation in a helium Porosimeter come from Boyle's Law for isothermal ideal or real gas systems.

Features:

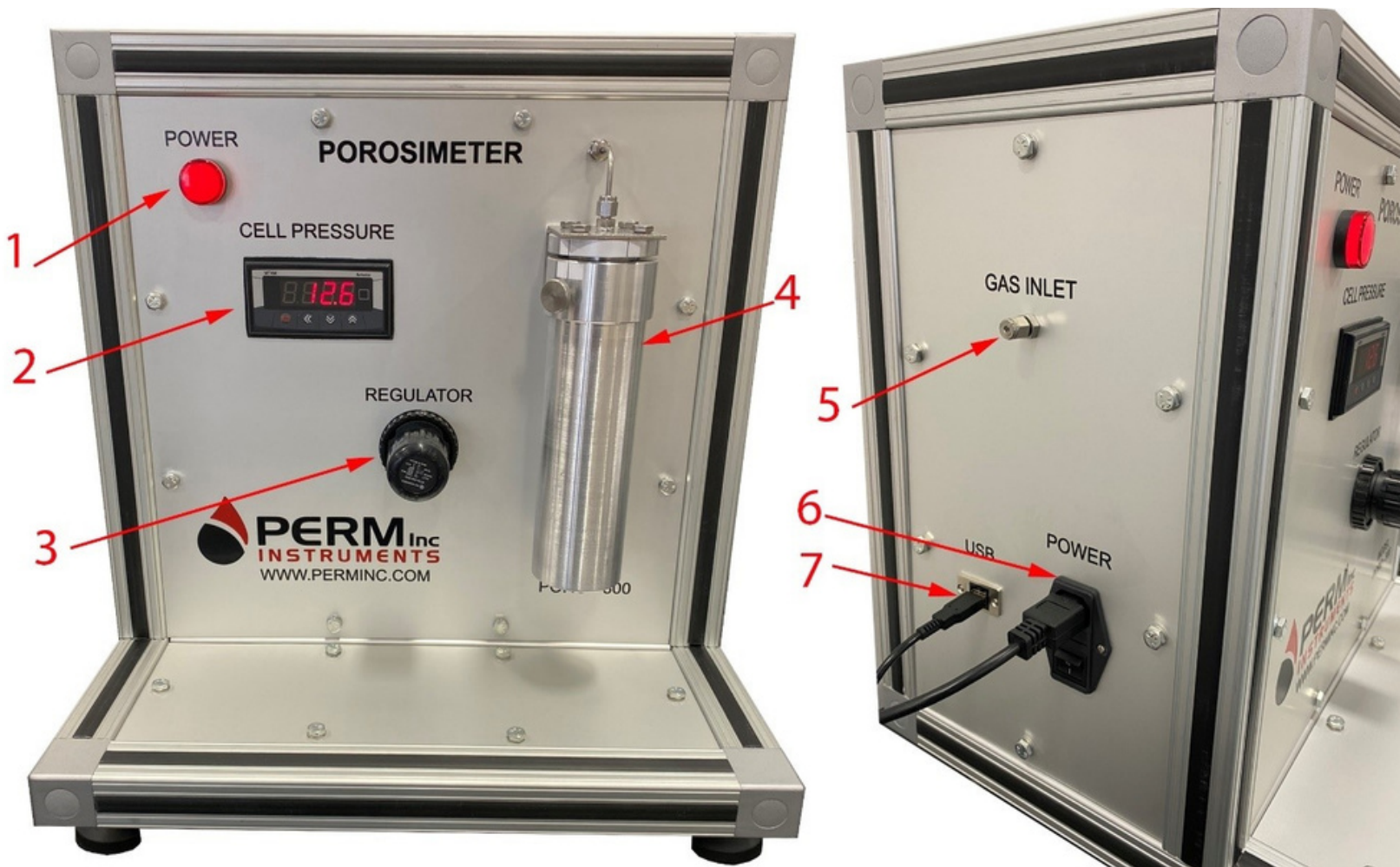
- ◆ Enables operator to measure the porosity for core plugs of various sizes, with a broad range of porosity
- ◆ Simple sample setup
- ◆ Compact and robust, minimal maintenance
- ◆ Computerized Data Acquisition and Control (optional)

Specifications:

- ◆ Overall dimensions: 18 in x 17.5 in x 20.5 in
- ◆ Maximum gas pressure: 300 psi
- ◆ Operating temperature: room temperature
- ◆ Core plug diameter: 1.5 inches
- ◆ Core plug length: up to 6 inches
- ◆ Accuracy of pressure measurements: ~ 0.1%
- ◆ Porosity range: 1-60%
- ◆ Electrical requirement ⁽¹⁾: 110-240 VAC
- ◆ Data logging microprocessor ⁽²⁾: 16 bit

(1) A 120/220V-10A power cable is provided with the apparatus.

(2) A USB 2.0 cable is provided with the apparatus.



Component List :

Part	Description	Part	Description
1	Power LED light	2	Digital display for cell pressure (psi)
3	Gas regulator	4	Porosity cell
5	1/8" tube fitting for gas inlet	6	Power plug
7	USB connector		

CONTACT

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