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Core Lab

NANOK Permeameter NANOK-100 Datasheet

Shale Oil/Gas Testing Equipment

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NANOK Permeameter - NANOK-100



NANOK-100 Nano Permeameter is a digital, steady state gas permeameter system for testing plug size core samples and is configured for 3-point "Klinkenberg" measurements on ultra-low permeability rock samples.

The NANOK-100 is designed to measure "Klinkenberg" permeability on ultra-low permeability samples. The NANOK-100 incorporates two hydrostatic core holders. Downstream calibrated capillary tubes or an automated low flow gas meter allow measurements of gas flow rates down to 6.7×10^{-10} cc per second with upstream pressure monitored by a high accuracy digital pressure transducer.

The system uses nitrogen or methane as the flowing gas thus allowing the investigation of permeability with various flowing gases. Because of the low flow rates, inertial effects are minimized.

Permeability Measurement Range: 1 Attodarcy (10^{-18} Darcy) to 1 Micro Darcy (10^{-6} Darcy).

Scope of Supply:

NANOK-100 complete with:

- Hydrostatic Core Holders, 2 each
- Core Holder Specifications: i) Core Diameter: 1" ii) Core Length: 1-3"
- Confining Pressure Range: 10,000 psi



- Wetted material: 316 SS
- Loading Type: Hydrostatic
- NANOQ™ Ultra-Low flow rate gas meter (Patent Pending)
- Computer, Monitor, CD-ROM Mouse, keyboard, Microsoft Windows and the NANOK operating software are provided pre-installed on the PC.

Specifications:

- Wetted Material: 316 Stainless Steel. Confining pressure to 10,000 psi
- Working Temperature: Room
- Electrical: 110 VAC 60Hz 1 Phase or 220/240 VAC 50Hz 1 Phase
- Dimensions: 36" x 24" x 36" (W x D x H)
- Supplies required: Air 80 psig minimum 120 psig maximum, 1 each

Recommended Spare Parts:

- Core Holder Sleeves
- Core Holder seals