

Technical Data -Penetration -PNR 12

Standard methods	
Needle and Ram Penetration	ASTM D5, ASTM D1321, ISO 6873, EN 1426, EN 13179-2, DIN 51579, IP 376-A, IP 376-B,
	JIS K 2207, JIS K 2235 and more
Cone and Disk Penetration	ASTM D217, ASTM D937, ASTM D1403, ASTM D7342, ISO 2137, IP 50, IP 179, IP 310,
	European Pharmacopoeia 2.9.9. and more

Operation:	
Measuring range	0 mm to 80 mm (plunger-dependent)
Automatic surface detection	Force sensor plunger
	Electrical conductivity sensor
Password security	Multi-level password protection
Calibration	Display guided for time, distance and temperature
Languages	English, German, French
Handling	Jog wheel (turn and push)
	Selection of mm or 1/10 mm (Penetration Unit)
Resolution	0.01 mm
Test duration	0.1 s to 999,999 s
Start delay	Up to 9999 s
Temperature recording	-25 °C to 100 °C with optional Pt100 sensor
Limit indication	Low and upper limit alarm
Documentation:	
Data memory	200 results/ 4 standard programs/ 16 user-definable programs
Data export	Memory stick (Excel®)/ Printer/ To laboratory network: LAN, LIMS compatibility
Interfaces	1x USB, 1x LAN, LIMS compatibility
Data input option	Keyboard
Statistics	Mean, min, max, standard deviation
Display	3.5"
Data conversion	NLGI-class, EN-bitumen value, ¼-cone to solid cone and ½-cone to solid cone