

COMPLEMENTARY INFORMATION

06.15.SA PENETROLOGGER

New penetrologger

- Display of Vehicle Cone Index
- Precise internal GPS-system
- Optional soil moisture measurement
- Larger storage capacity
- Inclusion of French and Spanish language functions
- Simplified operation
- New PC software
- New robust design

The penetrologger consists of (see photo): the penetrologger (1) with force sensor (2), a bi-partite probing rod (3), a cone (4), the depth reference plate (5), a communication port (6) and a GPS antenna (7).

The cone is screwed on the probing rod, which is connected with a quick coupling to the force sensor on the penetrologger. Now the cone is pushed slowly and regularly into the soil. The depth reference plate, which is on the soil surface, reflects the signals of the ultrasonic sensor, which results in a very accurate depth measurement. The depth reference plate is also used to reflect the signals which are used to control the penetration speed. The measured resistance to penetration and the GPS coordinates are stored in the internal logger of the penetrologger. Depending on the application and the expected resistance to penetration, various cones can be connected to the probing rods. Optional is the possibility of soil moisture measurement with an external soil moisture sensor (1 measurement per penetration).

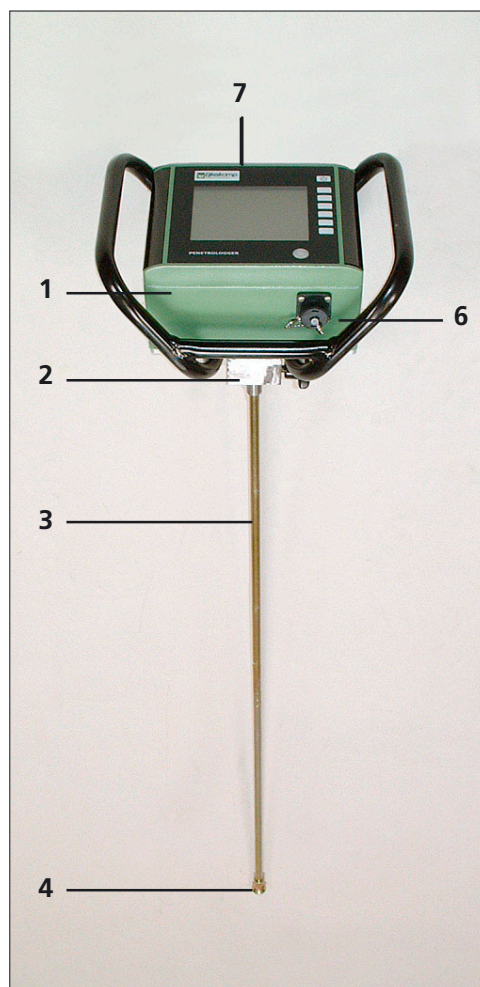
Technical specifications

Operating temperature	0 - 50 °C
Operating humidity	IP 54 (splash water proof)
Penetrologger weight	3.4 kg (excl. rod, incl. battery)
Overall carrying weight	15.5 kg
Dimensions for transport	58x29x25 cm
Memory	1000 measurements
Maximum penetration force	1000 N
Force resolution	1 N
Depth registration	80 cm
Depth resolution	1 cm
GPS accuracy	< 2.5 CEP (Circular Error Probable)
Soil moisture resolution	1%

Available august 2005

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