

GLÖTZL Baumeßtechnik

MAGNETIC SETTLEMENT PLUMB

Type: ML . . .

Art. No.: 84.10

Magnetic settlement plumbs are used for simple, quick and reliable measurement of settlements in inclination measuring tubes, special measuring tubes for settlement measurement or piezometer tubes. The measured value can directly be read off at the exact measuring cable.

Procedure As soon as the probe has reached the magnetic field of the magnetic ring, an electronic switch is activated by the reed contact which is releasing a light signal. As accessories, also an electronic buzzer can be delivered. By a light lifting, the signal is immediately going out. Thus, the measuring point can exactly be scanned. The measuring depth is directly read off at the cable in meters and centimeters. Smallest graduation is 1 cm. By a pulley guide with nonius, alterations can exactly be recorded in millimeters.

Cable

2-core polyethylene flat cable with high-tensile, rustproof steel strands, black cm-graduation deeply pressed into the tape, high accuracy with decimeter lettering and red meter marking

Cable Reel

Light cable reel with fixing for plumb

Plumb

18 mm Ø, approx. 200 mm long, with reed contact, special sealing, tension discharge and bending protection

Electronics

Completely transistorized, no current consumption in case of non-use

Current Supply

9 V – with a commercial block battery 9 V

All parts of the instrument are corrosion-resistant. The instrument is supplied ready for operation with leak-proof batteries.



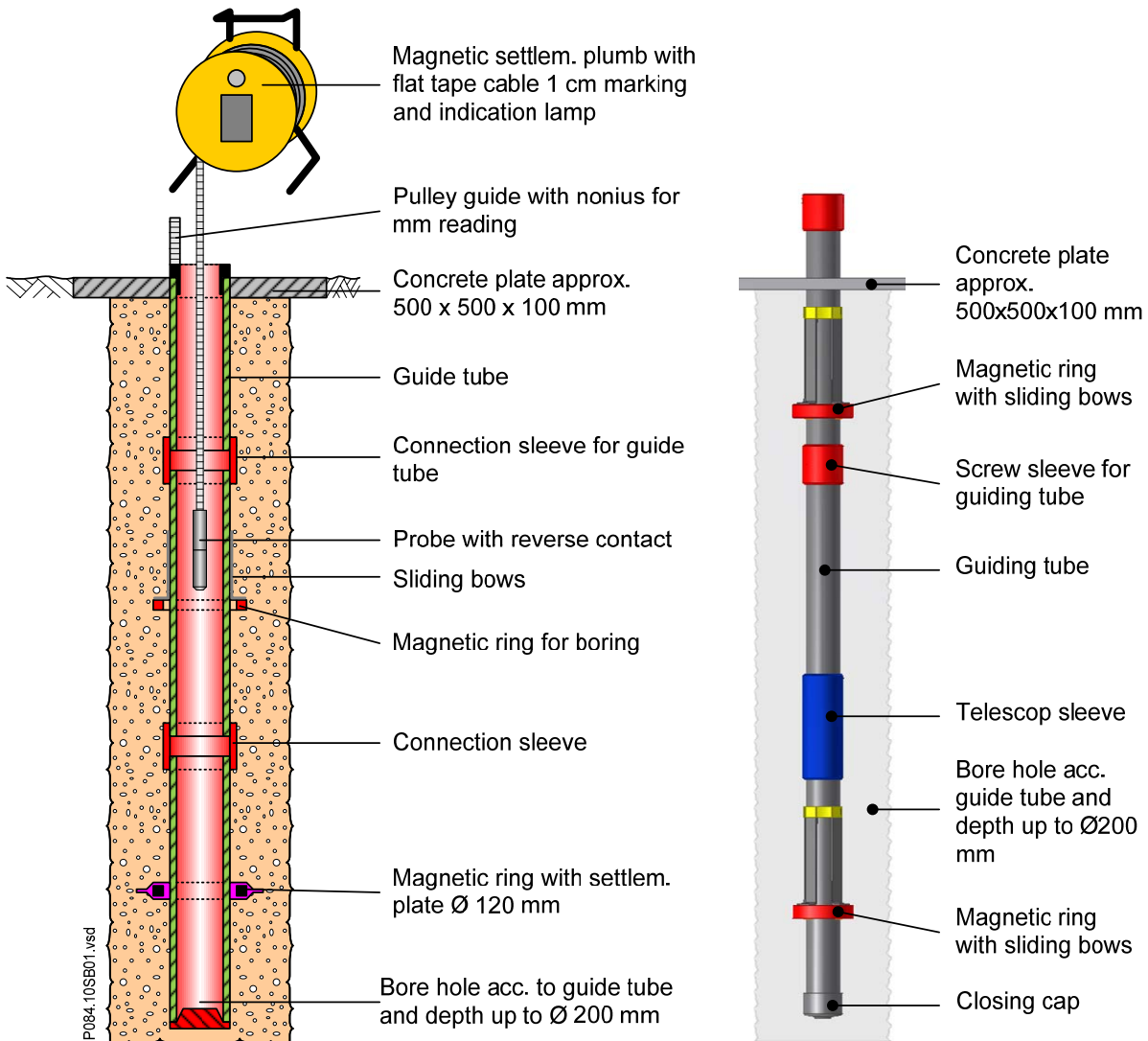
Figure.: Magnetic settlem. plumb with 100 m length with light-weight hand reel

Article Nos.: Types on stock*

84.10.01	.01	.02	.03	.05	.06	.07	.08	.09
Cable length [m]	15*	30*	50*	100*	150	200	300	500
Type designation	ML 15	ML 30	ML 50	ML 100	ML 150	ML 200	ML 300	ML 500

For determination of settlements, magnetic rings are pushed over a guide tube. These rings are moving with the settlement and the magnetic field resp. its position change is recorded with the measuring probe by a reed contact. Under good conditions, the achieved accuracy is +/-2 mm.

This system is suitable for settlement measurements in borings or embankments, in inclination measuring tubes, piezometers and special tubes for settlement measurements.



The guide tube must be sealed to avoid the penetration of dirty particles. During installation, it has to be filled with water in order to prevent an uplift in borings filled with water.

If magnetic rings are installed with the guide tube of the inclinometer, they have to be pushed over the tube and to be fixed during installation time.

Magnetic Rings

- 84.10.60.01 Magnetic ring, type MSK Ø 62/95 mm
- 84.10.60.02* Magnetic ring, type MSK Ø 62/95 mm with sliding bow
- 84.10.60.05 Magnetic ring, type MSK Ø 62/120 mm
- 84.10.60.06* Magnetic ring, type MSK Ø 62/120 mm with sliding bow
- 84.10.70.01 Magnetic ring, type MSK Ø 90/120 mm
- 84.10.70.02* Magnetic ring, type MSK Ø 90/120 mm with sliding bow
- 84.10.70.05 Magnetic ring, type MSK Ø 90/150 mm
- 84.10.70.06* Magnetic ring, type MSK Ø 90/150 mm with sliding bow



* Sliding bows for attachment at measuring tube and installation in borings

Subject to technical alternations