



The NMGH is an inclinometer probe to survey vertical deformations in horizontally installed inclinometer casing. It is used to determine a profile of differential settlement for projects like embankments, dams, landfills and foundations, for example of liquified natural gas (LNG) tanks. The probe is equipped with a servo accelerometer that measures the tilt in relation to the horizontal.

During a survey, the horizontal inclinometer probe is drawn through the casing from one end to the other, while tilt measurements will be recorded gradually in 0,5 m or 1 m steps.

The measured value will be displayed on the readout unit as a sine, that correlates with the vertical deviation. For a settlement profile all values are summed up.

A specially developed software is available for data evaluation.

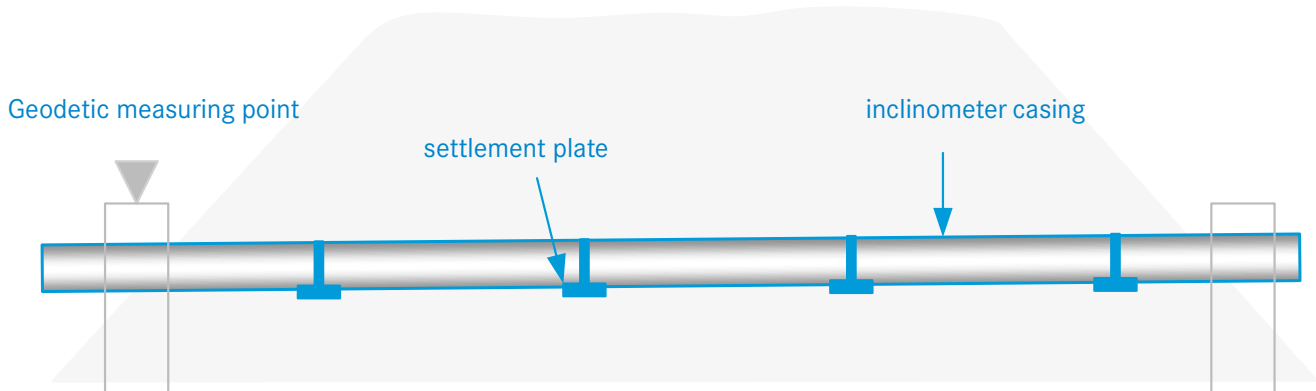
Accessories	Technical specifications	0,5 m Probe	1 m Probe
<ul style="list-style-type: none"> ■ Dummy probe ■ Different kind of cable reels ■ Readout Units: NMA9, GLM Tablet or Notebook with NDI-Interface ■ Positioning rod ■ Security barrier (ATEX version) ■ Measuring and evaluation software ■ Transport-box and bags 	<ul style="list-style-type: none"> Length/ Ø: Weight: Measuring range: Measuring length - Total probe length Linearity: Temperature range: Inclinometer casing: Resolution: Hysteresis: Zero drift: 	<ul style="list-style-type: none"> 0,5 m/ Ø 32 mm 2,4 kg $\pm 45^\circ$, max. work area $\pm 60^\circ$ 500 mm 700 mm $\pm 0,02\%$ FS -5 to $+60^\circ\text{C}$ $\varnothing = 35\text{ mm to }75\text{ mm}$ 0,1 mm/m to max. 30° ptional 0,01 mm/m to 10° 0,001 % FS $\pm 0,005\%$ FS/$^\circ\text{C}$ 	<ul style="list-style-type: none"> 1 m/ Ø 32 mm 3,2 kg 1000 mm 1200 mm
Characteristics			
<ul style="list-style-type: none"> ■ Proven, robust mechanics ■ Precise and replaceable wheels ■ Easy to maintain ■ Integrated 16-bit-A/D-converter ■ ATEX-certified version available 			



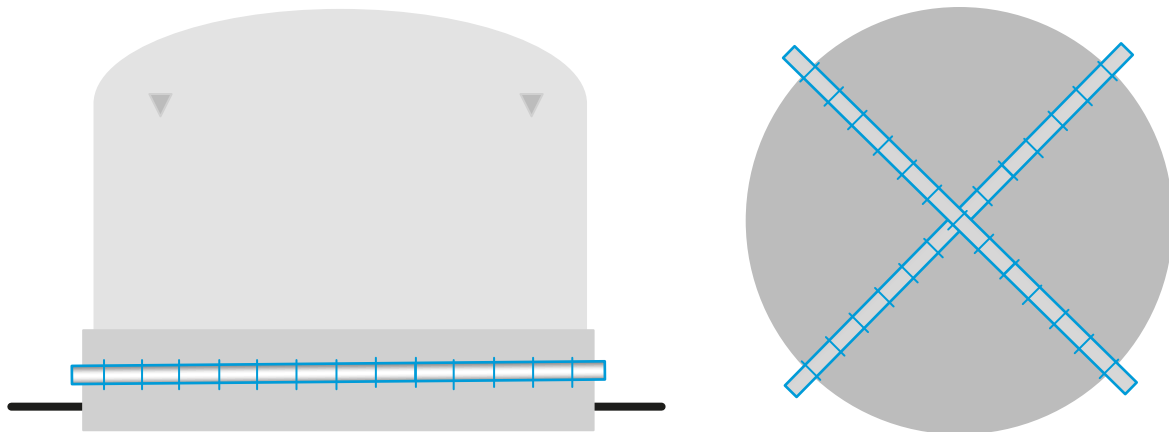
Fig.: complete System – Probe NMGH, Readout Unit NMA9, cable reel NMK

PRINCIPLE OF INSTALLATION

FOR DETERMINATION OF SETTLEMENT
IN LANDFILLS



FOR DETERMINATION OF SETTLEMENT
UNDER STORAGE TANKS



Software for evaluation

- GLNP-Software for evaluations on the computer
- SDC-cloud application for web-based evaluation with every internet-ready device
- Determination of the course of the borehole (one direction/profile) with NN height calculation; link of the measurement data to the geodetic height of the start and/or end point of the pipe
- Determination of the settlement process by means of establishing the difference of any series of measurements

Options of data acquisition

- with a digital cable drum NMK-D, data communication via Bluetooth to the GLM-Mobile tablet, data transmission via USB Stick or GPRS
- via notebook with an intermediate NDI-converter and GLM-measuring program
- via handheld readout unit NMA9 with analog cable reel NMK, data transmission via GLM or GLNP

