

# Multi-layer inclinometer **NKB-LF/NKB-MF**

## Highly reliable data network-compatible with improved insulation functionality

This is the inclinometer developed to automatically measure the displacement of the ground or structure.

A special guide pipe is installed vertically in the ground or structure in advance, and several inclinometers are connected to the guide pipe with a relay rod (KBF-33) so that they come to the measurement position and are fixed in place.

As the inclinometers have a built-in network module, the inclinometers are connected successively with a single cable.

The system is used for measuring landslide displacement and the displacement of earth retaining walls.

The NKB-LF model only measures in one direction, while the NKB-MF can simultaneously measure in X and Y direction with a single unit.

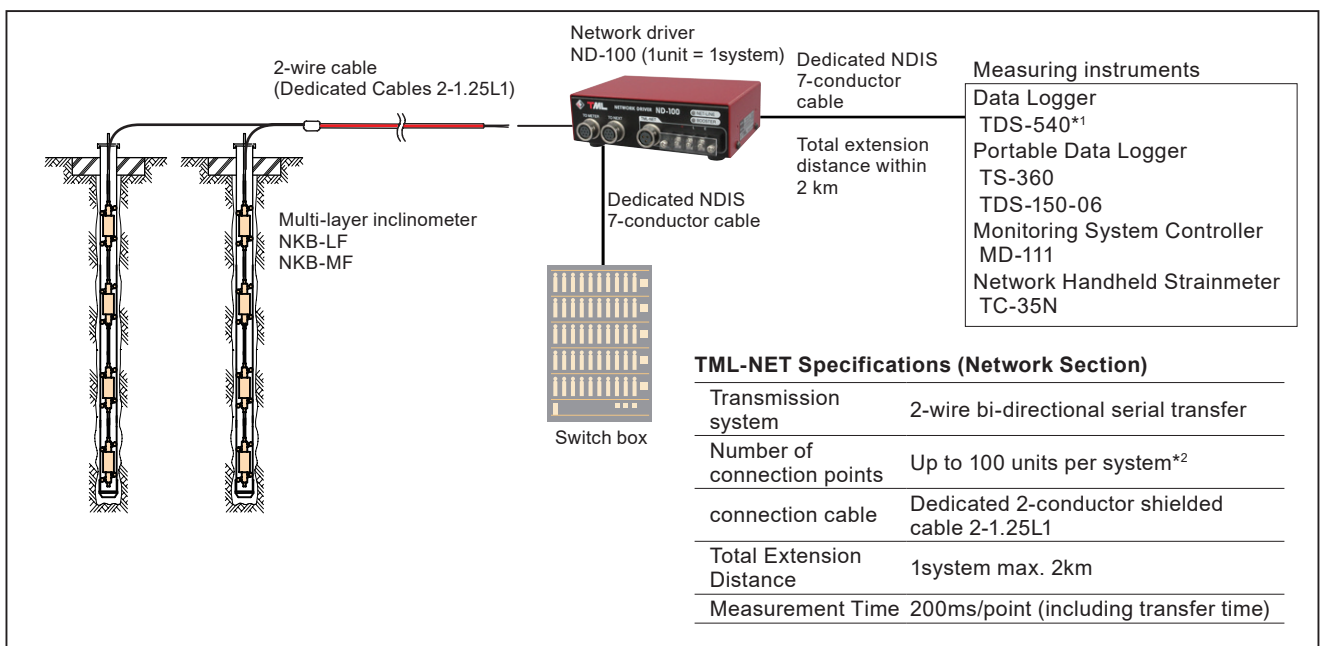
Protection rating: IP68 equivalent

### Features

- Connection possible with a single cable
- Insulation check function included
- Made of corrosion-resistant all stainless steel
- No sensitivity loss
- Easy automatic measurement



### System Block Diagram



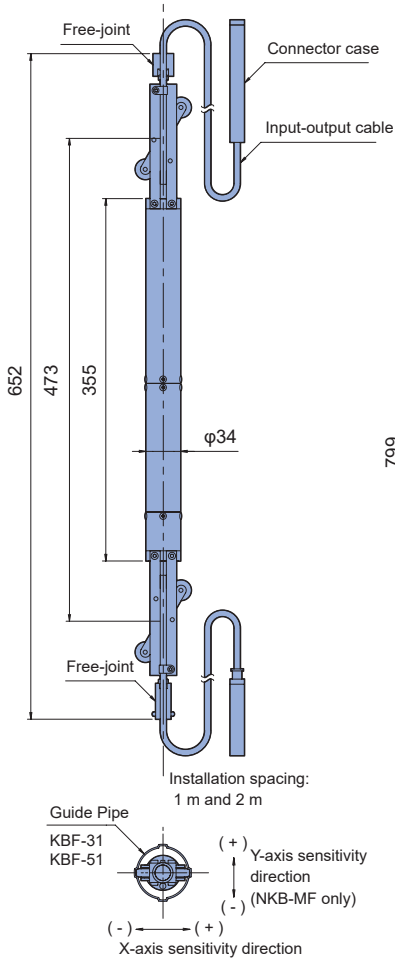
\*1 TDS-540 is only compatible with models with ASW/SSW switch box control unit

\*2 Specifications when using the ND-100 network driver. For other TML-NET compatible measuring instruments, the number of measurement points and extension distance vary depending on the measuring instrument.

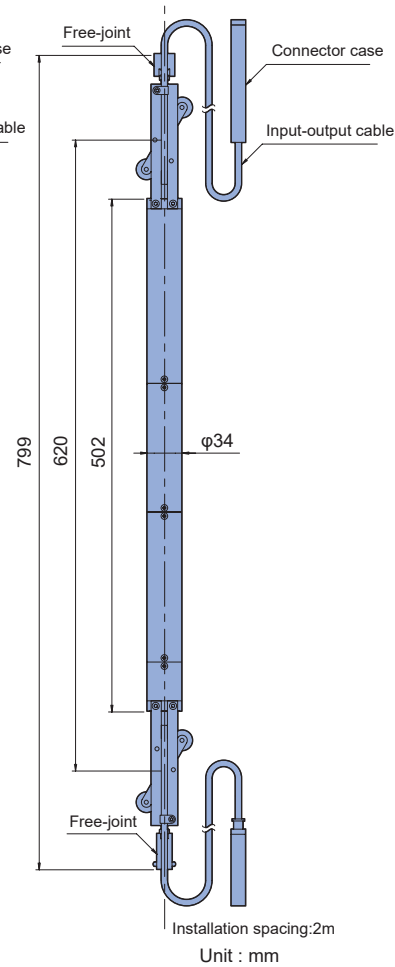
(Portable data logger TDS-150-06, monitoring system controller MD-111, handheld measuring instrument TC-35N, network interface NIF-100)

## External Dimensions

NKB-LF(1-axis)

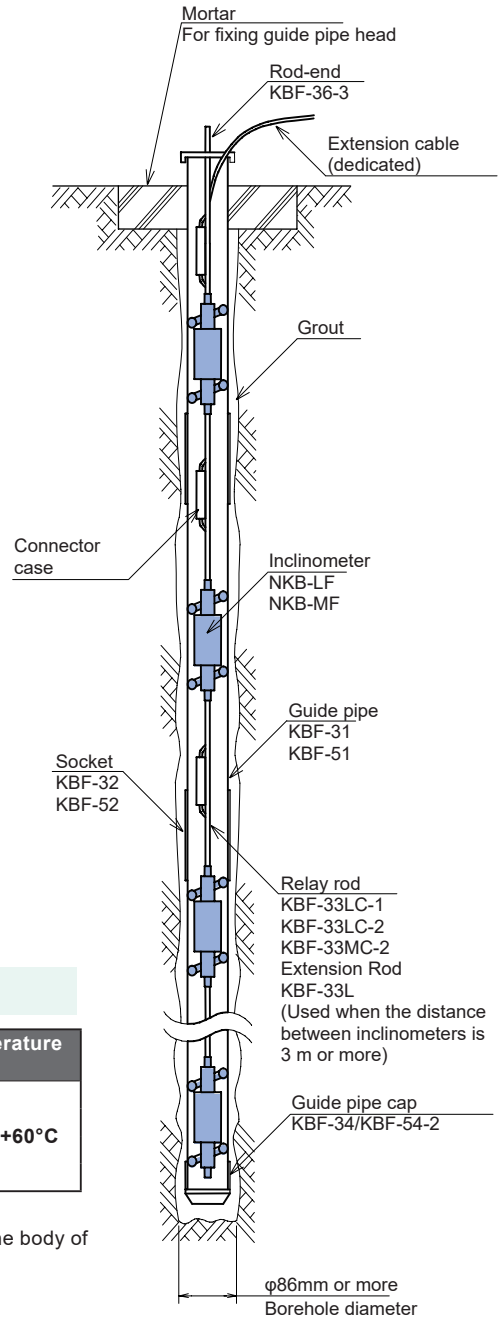


NKB-MF(2-axis)



## Related products

Example of installation with inclinometer nkb and related products



## Specifications

Type	No. of measuring axis	Capacity	Rated indication	Non-linearity	Temperature range
NKB-5LF	1 direction	±5°	approx. ±2000 digit	0.5%RO	-20 to +60°C
NKB-10LF		±10°			
NKB-5MF	2 direction	±5°			
NKB-10MF		±10°			

### Output polarity

The measured value moves in the direction of the arrow indicated on the label on the body of the unit in response to changes in inclination.

We also offer extension rods, head caps, rivets, riveters, and demountable pliers.  
Please contact us for details.



Approval Certificate ISO9001  
Design and manufacture of  
strain gauges, strain measuring  
equipment and transducers

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The contents of this catalog are as of January 2025. TML Pam E2022A.



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