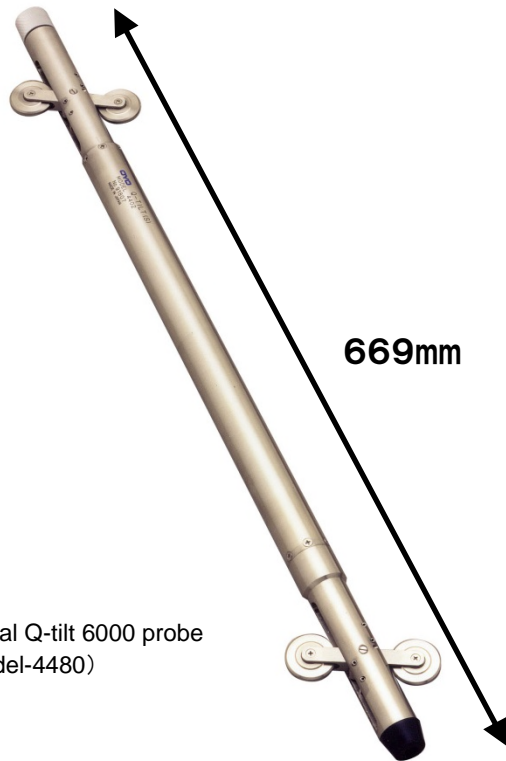


High Precision  
Digital Borehole Inclinometer System  
for Underground Deformation  
Measurement

# Digital Q-tilt 6000 Probe and Handy Logger Digital Q-tilt



Digital Q-tilt 6000 probe  
(Model-4480)



Handy logger digital Q-tilt  
(Model-4470)

## <Abstract>

A new type variable capacity sensor is installed for inclinometer sensor. The Handy logger digital Q-tilt allows to collect and display measurement data.

## <Features: Probe>

- Improvement in Impact resistance  
Resist up to 6,000G which effects on reducing failures such as misalignment of the zero point.
- Shortening of measurement time  
The probe has good temperature characteristics which shortens time of temperature stabilization.

## <Features>

- Handy logger digital Q-tilt is designed as water resistance.
- Available to show collected data in numerical graph on the display of Handy logger digital Q-tilt.
- Easy obtainable 4 pcs D cell batteries are used.
- Collected data in CSV data format is convenient to calculate and graph with PC.

## <Specifications>

### ■ Digital Q-tilt 6000 probe (Model-4480)

Measuring range	: $\pm 30^\circ$
Linearity	: 0.05%FS
Resolution	: < 10 seconds
Operating temperature	: 0 to 50°C
Wheel space	: 500 mm
Impact resistance	: 6000G

Note: A high precision sensor is installed. Please avoid any impacts on the sensor during measurement and/or transportation.

Available cable	: Inclinator cable (less than 160m) *Measuring depth is up to 150m.
Dimensions	: Shell diameter $\phi 30$ mm (without wheel) : Width 88mm : Length 669mm
Weight	: 1.7 kg (probe only)

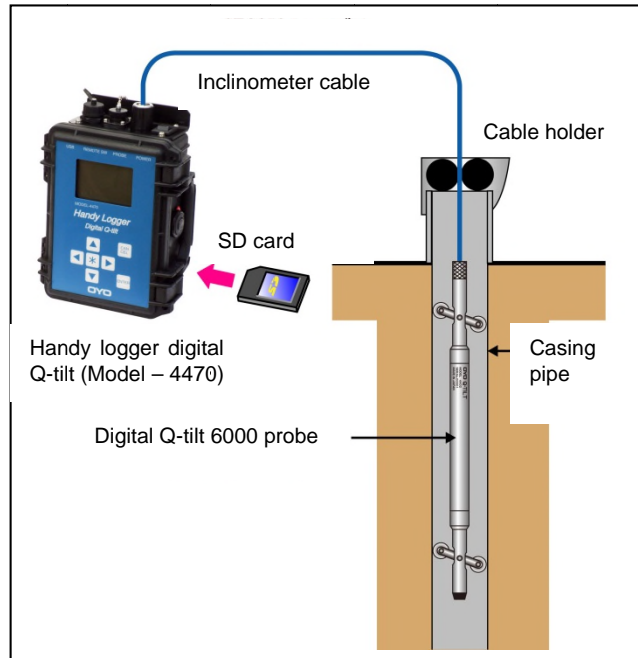
Dimension for dedicated carrying case	: 750mm x 125mm x 118mm (without any projected parts)
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### ■ Handy logger digital Q-tilt (Model-4470)

Power requirement	: D cell battery x 4 pcs (4V to 7V) *Resume function will activate at 4.7V. *Rechargeable Nickel Hydride batteries "eneloop" (manufactured by Panasonic) came with as a standard accessory.
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Power consumption	: 1) Main unit only with backlight : Less than 0.1A : 2) Main unit with Digital Q-tilt 6000 probe at measuring : Less than 1A *Approx. 6 hours continuous measurement can be done using eneloop batteries.
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Data format	: CSV, PRN
Water resistance	: Equivalent to IP43
External recording media	: SD card



Note: There would be no compatibility for measurement data if the probe is replaced, assessed, or repaired.

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JQA-2772

Please note specifications are subject to change without notice for the improvement.

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