transmitter to a vessel located at the water surface. On the vessel the data can be visually shown on a display. With the feedback of the visual data the captain of the vessel is able to adjust the force on the anchoring line in order to influence the introduction path or the retraction path of the anchor.

In one embodiment the calculation and data processing unit is disposed on the vessel. As the data need not be processed first, but can be forwarded unprocessed, the electronics in the measuring device can be simplified, which reduces the risk of the electronics breaking down or failing.

In one embodiment, there is provided~~According to a second aspect the invention provides~~ an optical measuring device, suitable to be used on the anchor described above. The optical measuring device can be placed as a separate part on any anchor provided that during the processing or interpretation of the data, the location of the measuring device on the anchor is taken into account.

According to a second~~third~~ aspect the invention provides a method for measuring the anchor displacement of an anchor in soil of an anchoring ground, wherein the anchor is provided with a measuring device that is fixedly attached to the anchor for measuring displacement of the soil with respect to the anchor, wherein the measuring device is provided with a light source and an optical sensor, wherein the optical sensor comprises a plurality of light detectors that jointly form a light-sensitive sensor surface, wherein each light detector covers a segment of the light-sensitive sensor surface, wherein the measuring device is operationally connected to a calculation and data processing unit that is provided with a storage medium and an electric circuit, wherein the method comprises: exerting a pulling force on an anchoring line connected to the anchor in order to introduce the anchor into soil of an anchoring ground according to a penetration path; by means of the light source emitting a light