## **Db-004**

## Prototype model of a half-filled water-tube tilt-meter

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We have developed a new type half filled water-tube tilt-meter. A feature of this tilt-meter is its easy construction of a water channel. The water channel consists of water vessels and connecting pipes. These materials are SUS304. The 4-m connecting pipe (water tube) has flange fittings on end faces. Using this system, setting up of the water channel is easier than the conventional one.

Specifications of the prototype model of the half filled water-tube tilt-meter are as follows: Water Vessel: outer diameter 159 mm, height 85 mm Connecting pipe: outer diameter 42.7 mm, unit length 4 m with quick couplings Float: diameter 136.5 mm, height 30mm, material; corrosion resisted aluminum alloy, no supporting mechanism Float movement detector: Differential transformer