

ABSTRACT

A sensor device system includes a sensor device (D1) that is attached for use to a measuring instrument (G1) including a scale plate (G16), a shaft member (G17), a pointer (G14) and a magnet (G18), and that contactlessly acquires a measurement value measured by the measuring instrument (G1). The pointer (G14) has an axial portion attached to the shaft member (G17) and an indicating portion that extends radially outward from the axial portion and points to the scale as viewed in an axial direction (Z). The magnet (G18) has one each of an N pole and an S pole disposed in a circumferential direction of the shaft member (G17). The sensor device (D1) includes a sensor circuit (2) and a case (1) accommodating the sensor circuit (2). The sensor circuit (2) generates a magnetic pole boundary direction value by detecting a magnetic pole boundary direction parallel to an interface between the N pole and the S pole, and generates a meter reading value by correcting the magnetic pole boundary direction value with a correction value. The correction value is calculated based on an extension direction of the pointer (G14) and an angle formed by the magnetic pole boundary direction and a reference direction of the magnetic pole boundary direction.

(Fig. 4)