

IGIS



METAL CASING DETECTOR

Invention Award Winner, 42nd All India Industrial Exhibition 1983

IGIS Casing Detector is an extremely useful device as it provides for rapid and accurate determination of the length of metal casing in boreholes, a basic information that every drilling engineer likes to have.

SPECIFICATIONS:

Length of the cable	30mts. (Graduated in cm) (other lengths optional)
Indication	Analog panel meter and buzzing sound
Power supply	Built in 12V DC dry pack
Weight	3.7 Kg

PRINCIPLE:

Based on the principle of electromagnetic induction, the unit consists of a sensor along with a graduated cable and a control module. When the sensor comes in the vicinity of any metallic conductor or a magnetically permeable object, the impedance of the sensor changes and this generates a signal. The signal is processed suitably and the output is displayed on a panel meter to indicate the presence of the Conductor. It is so arranged that when the sensor is lowered into a metal cased well, the panel meter on the instrument shows full scale deflection with buzzing sound so long as the sensor remains inside the cased portion, and the deflection on the panel meter falls off to zero in the absence of casing. The depth to the point where the casing ends can be read on a scale printed on the cable.

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