Pipeline Detector Cables

General information about Full-frequency Pipeline Detector Cables AD-PD2083B

AD-PD2083B full-frequency pipeline detector is the preferred equipment specially detecting various kinds of pipelines for oil (gas) transportation, water supply, drainage, gas, heat, and industry, etc. and various cables for electricity and telecommunication, etc.
used by such underground pipeline design organizations as professional pipeline detection, pipeline management and maintenance, municipal administration planning and construction, power supply, building and construction.It's also the optimum replacement for traditional underground pipeline detectors.

Characteristics:

Adoption of DSP processors, having a higher calculation speed and accuracy
The orientation function available to indicate the pipeline running, making location faster.
The 10W broadband transmitter used, applicable to various environments
The Lithium battery pack used to supply power for both the receiver and the transmitter, being energy-efficient and environmental-friendly, able to save battery costs of RMB 3000 to 5000 yuan annually.

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Working Principles:

The full-frequency detector detects underground pipelines electro magnetically, which applies signals to metal pipelines through the transmitter, generates the piping currents in metal pipelines and the secondary magnetic field around pipelines, and measures the secondary magnetic field of pipelines on the ground through the receiver, in order to accurately determine the location, buried depth, running direction, route and signal current intensity of pipelines.

Technical Parameters of the device:

Transmitter:

- Function: to apply the location signal of a certain frequency onto pipelines
- Output modes: induction, direct link, clamping
- Working frequencies: 128Hz, 512Hz, 1KHz, 2KHz, 8KHz, 33KHz, 65KHz, 83KHz
- Frequency configuration at various modes:
- Induction mode：65KHz, 83KHz
- Direct link mode：128Hz, 512Hz, 1KHz, 2KHz, 8KHz, 33KHz, 65KHz, 83KHz
- Clamping mode：33KHz
- Maximum power output：10W
- Maximum voltage output：60V
- Maximum current output：1A
- Power supply: dual power supply, Lithium battery pack (energy-efficient an
- environmental-friendly)
- Continuous working time:
- 1W 12 hours
- 5W 8 hours
  10W 5 hours
- Weight：2.6Kg
- Ambient temperature：-20℃-50℃
- Quality standard：ISO9001：2008

Receiver:

- Purpose: location of underground pipelines and cables (able to measure the
- position, running direction, depth, and current of underground pipelines)

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Location modes:

- Peak mode: two horizontal coils used
- Broad peak mode: one horizontal coil used
- Valley mode: one vertical coil, having the function of left and right orientation
- Receive frequencies: 50Hz, 100Hz, radio, 128Hz, 512Hz, 1KHz, 2KHz, 8KHz,
- 33KHz, 65KHz, and 83KHz
- Gain control: automatic gain, range of 0-100dB
- Location accuracy: 5% of depth (range of depth: 0-3m)- 10% of depth (range
- of depth: >3m)
  Measurement accuracy of currents: ≤5% of actual current
  Range of measurement: 0-6m
  Power supply: Lithium battery pack (energy-efficient and environmental-friendly)
  Working time: an average of 8 hours
  Weight: 1.8kg
  Ambient temperature: -20℃-50℃
- Quality standard: ISO9001：2008

Standard Configuration:

- 10W broadband large-power transmitter, full-frequency receiver, clamp, direct link line, earthing bar, transmitter charger, receiver charger, packing box, and user's manual.

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