



HGS (INDIA) LIMITED



HG-PTS PIG TRACKING SYSTEM



INTRODUCTION:

The HG-PTS Pig Tracking System is used to monitor the movement of Pigs through pipelines. It works on the principle of detecting sounds produced by a Pig moving through a pipeline by burying a geophone assembly next to the pipeline. Sounds are then captured, amplified and relayed to the System Operator through a pair of headphones or the System's inbuilt speakers or simultaneously through both mediums. The system can detect & amplify the sound of an approaching Pig which creates distinct sounds when brushing against the welds of the pipe it is travelling through. Such sounds created by the movement of a Pig through a pipeline can be heard from several kilometers in some instances.



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OPERATIONS:

For ideal usage, it is recommended to plant the geophone assembly into the soil between 0.3 to 1.5 meters from the pipeline, completely covered with soil. The closer the geophone assembly is planted to the pipeline, the better the sound reception is likely to be. However, it is not recommended to plant the geophone in direct contact with the pipeline as one will not be able to discern whether the Pig is moving towards or away from the System Operator. For elevated pipelines or pipeline sections however, the geophone assembly should be planted near a supporting pillar.

To achieve optimum results, trials need to be carried out with each pipeline, soil density and type of Pig as different types of Pigs produce different types of characteristic sounds. Trials need to also be carried out in situations of high environmental noise to ascertain when the movement of Pigs through the pipeline can and cannot be heard. In noisy environments the signal may only be audible when the Pig passes through the pipeline very close to the buried geophone assembly. Further, some types of noise may be suppressed by burying the geophone assembly up to 0.5 meters in the soil.

The HGS Pig Tracking System is powered by a 11.1 V rechargeable Li-ion battery. A battery adapter is also provided along with the System to charge the battery from a 12 V DC vehicle's lighter port in a vehicle.

SPECIFICATIONS:

HG-PTS PIG TRACKING SYSTEM

- Can detect Pigs in pipelines from 2-3 km away
- System is supplied in a ruggedised Pelican carrying case (polypropylene case, IP-67 rated, watertight, dustproof and crushproof with rubber over-moulded handle, stainless steel padlock protectors, automatic pressure equalization valve and easy open double-throw latches)
- System offers independent volume control for the speaker & headphones
- Operating Temperature Range: 0 to 50 °C
- Battery: Rechargeable Li-ion, 11.1 V / 7800 mAh
- Dimensions: Length: 35 cm, Width: 30 cm, Height: 15 cm
- Weight: 4.5 kg
- Accessories: Geophone Assembly: element potted in a watertight IP-68 rated aluminum case with 7 meters of cable (other lengths available on request) provided in a separate cloth bag; headphones; battery charger; adapter for vehicle's lighter port.

Model No.	HG-PTS Pig Tracking System
HGSI Part No.	AM000022

Version 1.1



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