SAT-20C
Cable/pipe Locator

AITELONG
Keeping your system safe and running

◎ **Transmitter**
Quit the injected mode automaticly when the pipe insulation resistance is low; Transmitter alarms when the residual voltage is high.

◎ **Receiver**
Adjust the gain of the receiver in order to optimize the receiver in the state; Pitch change by measuring the signal directly reflects the size.

◎ **Stethoscope and Clamp**
Be used for precisely locating the pipeline in the complex situation.

◎ Splicing loss detection
◎ Locating underground cable/pipe
◎ Measuring the depth of underground cable/pipe
◎ ***L***ocating the target pipeline among pipelines.
◎ ***W***idely used for telecom, electricity, water, gas, geophysical exploration, petrochemical, municipal and other industries.

Using advanced testing technology and component

◎ The application of using multi-coil electromagnetic technology improves the accuracy of pipe locating pipeline depth measuring and objectives pipe recognization ability.
◎ Use of advanced signal processing technology and the latest integrated circuit components.

Meeting different measurement frequencies

◎ Users can choose from 480Hz、31KHz frequencies according to the actual situation;
◎ Users also can customize measurement frequencies for special requirement (must stated in the order).

Different mode and function to improve test effiency

◎ Peak mode: positioning route by measuring the max value of the signal
◎ Valley mode: positioning route by measuring the minimum value of the signal
◎ Route orientation: quickly and intuitively determine the route direction
◎ Current measurement (CM): detect the target pipeline by measuring the signal of the current
◎ Stethoscope: identify the loaded pipeline by anscultaing.

SAT-20C
Cable/pipe Locator

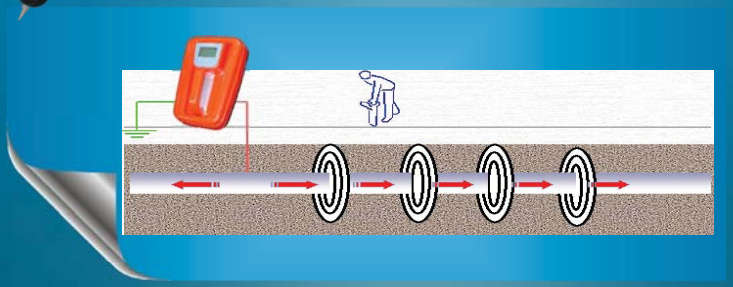
AITELONG
Keeping your system safe and running!

Real-time testing of battery

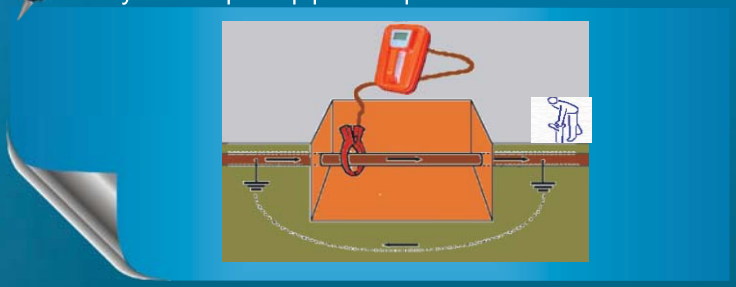
◎ It will alarm and automatically shut down when battery power is lower than the protection value.

A variety of measuring signals transmit mode

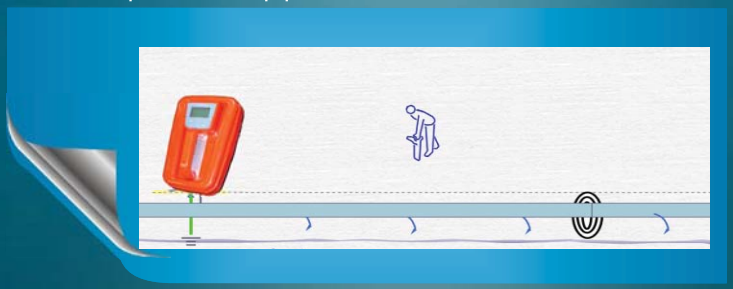
◎ Injection: injection point for a pipeline.



◎ Clamp: exposed for a period of pipeline under test, easy to clamp the pipe clamp



◎ Induction: for no injection point and can not use the clamp when the pipeline.



Specification

Transmitter index

◎ Signal frequency:
Injection :480Hz、31KHz
Induction :31KHz
Clamps :31KHz
◎ Output voltage : 0-400Vp-p according to insulation variance
◎ Output waveform : sine wave
◎ Power supply : 12VDC 4.5AH Ni-NH Battery
◎ Maximum output power :10W

Enviromental parameters

◎ Working temperature: -20℃~+50℃
◎ Storage temperature: -40℃-70℃
◎ Humidity: 10%~90%
◎ Atmospheric pressure: 86~106KPa
◎ Ambient noise: ≤60dB

Receiver parameters

◎ Power consumption: <1.0W
◎ Power supply: 12V DC 1.8 AH Ni-NH Battery
◎ Maximum depth: 4.5meter (normally)
◎ Depth measurement error: ±0.05h±5cm (h means the depth of pipeline)
◎ Route error: ≤5cm
◎ test pipeline routing and effective length
—Injecting: at least 10Km (normally);
—Clamp: at least 6Km (normally);
—Induction: at least 3Km (normally);

Note: normal condition means there is no insulation faults and other distractions when testing.

Physical property

Name	Weight(Kg)	Overall dimension(mm)
Transmitter	3.4	348×239×175
Receiver	2.6	648×260×130
Overall(Gross Weight)	14	790×250×420