

PCL-SMART Series

PCL-20

Pipe&Cable Locator

APPLICATIONS



Oil



Gas



Railway



Road



Water Supply



Electricity



Construction



Telecom



Pipeline



The second generation of the **PCL-20** is a high-performance dedicated underground pipeline detection and cable identification instrument, which consists of a signal transmitter and a receiver. It can be used for path detection, depth measurement and pipeline census of underground cables and metal pipelines. With a variety of optional accessories, it can perform unique identification, as well as find pipeline insulation damage and some types of cable faults.

SPECIFICATION

Sensitivity		6E-15 Tesla, 5μA @1m (33kHz)
Dynamic range		140dB
Depth accuracy		Depth D≤2m:±2.5%, 2m < Depth < 8m: ±5%
Position accuracy		±5% * depth
Screen display		Color LCD screen
Pipeline track		Eliminate interfering frequencies
Eliminate interfering frequencies		Support passive Detection Spectrum Analysis
Depth sounding auxiliary sensor		Signal distortion reminder (optional)
Active positioning filter bandwidth		± 2Hz
Maximum depth measurement		30m
Active positioning mode		Wide peak, narrow peak, valley value, historical curve, spectrum
Transmitter has multiple signal output modes		Direct connection method, clamp method, induction method
Gain control	Guided Mode	Automatic
	Manual mode	Use "+" or "-" to manually adjust the gain, and restore the center value (40% or 60% of the full scale) with one key
	Active positioning frequency	640Hz, 1280Hz, 8kHz, 33kHz, 82kHz, 197kHz
Probe frequency		512Hz, 8kHz and3 3kHz
Fault find		Optional Accessories A-frame and compatible transmitter to remove insulation jackets from pipes and cables
Fault location accuracy		10cm (fault detection booster and A-frame: used to locate partial cable faults and pipeline insulation damage points)
Passive positioning mode		50/60Hz power frequency, 4-24kHz radio frequency
		Multiple pipelines can be displayed simultaneously
		100Hz (or 120Hz) for detection of impressed current cathodic protection (CPS) pipelines (optional)
Volume		5 adjustable levels, allowing operators to clearly hear the alarm in noisy environments
Synchronize depth and current readings		Simultaneously display pipeline depth and positioning signal current
Detection measurement value		Store up to 1024 survey points in the locator and attach GPS data from internal GPS (if equipped) or external GNSS source via Bluetooth. Export data instantly or in batches via Bluetooth
Dynamic overload protection		40dB(Automatic)
Battery		The receiver has a built-in lithium-ion battery pack (continuous operation for 12 hours, 7.4V, >3Ah); the transmitter has a built-in lithium-ion battery pack (continuous operation for 12 hours, 7.4V, >3Ah)
Operating temperature		-25°C to 60°C, <90%RH
Storage temperature		-20°C to 70°C
Shipping size		700mm x 260mm × 330mm
Quality certification		ISO 9001:2015
IP		IP65

