

PCL-SMART Series

PCL-30

Pipe&Cable Locator

APPLICATIONS



Oil



Gas



Railway



Road



Water Supply



Electricity



Construction



Telecom



Pipeline



The second generation of the **PCL-30** 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 $D \leq 2m: \pm 2.5\%$, $2m < \text{Depth} < 8m: \pm 5\%$	
Position accuracy	$\pm 5\% * \text{depth}$	
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	$\pm 2\text{Hz}$	
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 and 3 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 x 330mm	
Quality certification	ISO 9001:2015	
IP	IP65	

