



# Kábel- és csőnyomvonal kereső, LKZ-2000



**Kábelek és csövek  
nyomvonalának  
meghatározása nagy  
pontossággal**

The complexity of large underground utilities networks is continually increasing. So obtaining precise information on the location of specific buried cables and pipes has never been so important in order to protect buried assets during ground excavation work and supporting the mapping and surveying of these existing utilities.

- Feszültség alatt lévő és feszültségmentes földalatti kábelek felderítése
- Víz-, gáz, olajvezetékek nagy-távolságú nyomvonalának felderítése
- Mélység és irány meghatározása nagy pontossággal
- Sokféle üzemmód a zavaró jelek kiszűrésére
- Érzékenység automatikus állítása
- Teljesítmény és frekvencia állítási lehetőség
- Aktív és passzív keresési mód
- Felderítési mélység (szondával) 6 m
- Nem-fém csővezetékek nyomvonalának felderítése

Sonel LKZ-2000 system has a unique flexible operating modes to help you easily decide the right mode for your locating application and site conditions. The intelligent utility locator monitors the signal interference levels in all available modes and recommends which to use for the best results. Saving you time and giving you increased confidence in your results.

## Sonel LKZ-2000 - the best system for most challenging conditions!



### POWER INDUSTRY

LKZ-2000 is designed to easily trace power cables over long and short distances with pinpoint accuracy, especially in areas with high levels of electrical interference. When used in conjunction with the supplied Multi Clamp a trace signal can be safely applied to an electrically live cable. The A-Frame accessory can also be used to easily locate cable sheath faults.



### CIVIL ENGINEERING AND CONSTRUCTION INDUSTRIES

The highly durable, weatherproof Sonel LKZ system has a flexible operating system to suit most site conditions and terrain, which is essential on complex and demanding civil engineering and construction sites.



### RAIL INDUSTRY

Damaging communication cables can be very costly and time consuming to repair, causing major disruption to the rail network. Sonel LKZ system is designed to easily locate and trace cables in congested areas and with high levels of electrical interference.



### TELECOM INDUSTRY

Tracing and locating large bundled cables, such as fibre optic cables, can be difficult and time consuming. Sonel LKZ systems high frequency modes are ideally suited for these types of cables, helping to improve your productivity and locating reliability of all cable types. The A-Frame accessory can be used to easily locate cable sheath faults.



### GAS & OIL INDUSTRIES

These can be the most potentially hazardous, costly or environmentally sensitive pipes to strike and therefore most important not to damage. Using the Sonel LKZ system's range of low frequency modes, locating and tracing these pipes is easy over long distances, maintaining maximum accuracy.



### WATER INDUSTRY

Locating and tracing pipes can support the mapping and surveying of utilities. Using the Sonel LKZ system with our dual frequency sonde is the ideal solution for locating deep underground non-metallic sewerage and drainage pipes, that can't be detected using standard locating technology.

## VEVŐ

- Frequency / Mode (factory enabled):
  - Power mode 50 Hz, 100 Hz, 450 Hz / 60 Hz, 120 Hz, 540 Hz
  - Radio mode 15 kHz to 60 kHz
  - Transmitter mode 512 Hz, 3140 Hz, 8192 Hz, 32768 Hz and 83.1 kHz (22 frequencies user configurable)
- Antenna configurations: Single peak, twin peak, null, total signal or left/right (cable only):
- Depth:
  - Power to 3 m
  - Radio to 2 m
  - Transmitter modes to 4.6 m Sonde to 6 m
- Depth Estimation:
  - 5% of depth in line or sonde (0.2 m to 4.6 m depth range)
  - 10% of depth sonde 4.6 m to 6 m:
- Bluetooth: For remote control transmitter
- Battery type: 2 x LR20, not supplied
- Battery life: 60 hours intermittent use (at 20°C)
- Auto-off: selectable after 5, 10, 20 or 30 minutes
- Operating temperature range: -20... 50°C
- Dimensions: 700 mm (H) x 325 mm (L) x 122 mm (W)
- Weight: 2.18 kg including batteries
- IP rating: IP65

## ADÓ

- Operating frequencies (factory enabled): 512 Hz, 3140 Hz, 8192 Hz, 32768 Hz, 83.1 kHz, 200 kHz (12 frequencies user configurable)
- Output power control: 5 levels
- Induction (max): 3 Watt
- Direct connection (max): 12 Watt when connected to a buried service with an impedance of 100 Ohm
- Battery type: 10 x LR20, not supported
- Battery life: up to 100 hours intermittent use (level 2 output at 20°C)
- Shutdown: Selectable auto shutdown after 1, 2, 3, 4, 5, 6, 7, 8 hours
- Operating temperature range: -20... 50°C
- Dimensions: 255 mm (H) x 190 mm (D) x 305 mm (W)
- Weight: 3.5 kg including batteries
- IP Rating: IP65

## Készülékkel szállított tartozékok



LKO-2000 vevő  
WMXXLKO2000

LKN-2000 adó  
WMXXLKN2000

Hordtáska  
WAFUTL9

## Külön rendelhető tartozékok



Lakatfogó 5"  
WACEGN3

A-keret  
WAADALKZRA

Kétfrekvenciás  
mérőfej  
WASONNAD1

Mérőkel dobon nem-  
fém csövek mérésére  
WAPRZPN80,  
WAPRZPN30,  
WAPRZPN50

Hálózati adapter pót  
telep egységgel  
WAAKU14

Mérőfej kábelek  
érintés mentes  
behatárolásához  
WASONBIK