



Precise surveying and measuring

Nedo CableTronic 4+

Greater safety during earth works



Nedo
CableTronic 4+



How it works

Current-carrying conductors generate magnetic fields. Nedo **CableTronic 4+** can safely and reliably detect them. It can also locate conductors and cables that do not carry electric current. For this purpose it uses long-wave radio signals like those all around us in our modern environment. Underground metallic conductors, acting as an antenna, receive these signals and propagate them. An electromagnetic field is generated along the conductor that can be located by the **CableTronic 4+**. This may sound complicated, but using the **CableTronic 4+** is very easy.

Clear display showing signal strength as a bar graph and depth information when using the optional Genny 4+ signal generator



Nedo CableTronic 4+

Greater safety during earth works.

Nedo **CableTronic 4+** reliably detects underground conductors, preventing damage to them during excavation work. This not only ensures the safety of people and machines in below-ground construction, it also protects your construction company against costly claims for damages.

CableTronic 4+ is very easy to operate and requires almost no expert knowledge. In order to locate underground cables, the area in question is systemically searched in lanes separated by about 50 cm before digging begins.

The device is guided a few centimetres above the ground. Cables are indicated by an acoustic signal. The strength of the detected signal is shown as a bar graph on the display. The peak pinpoints to the cable.

Current-conducting cables buried in shallow depth represent a particularly high risk in excavation work. When they are detected, StrikeAlert emits a loud warning sound.

Four operating modes are available for reliable detection of cables:

- Avoidance mode: Simultaneous search for current, radio and Genny 4+ signals for a quick survey of the work area.
- Power mode: Location of current-conducting lines
- Radio mode: Location, using radio signals, of cables that do not carry electric current
- Genny 4+ mode: Location of cables using the Genny 4+ signal generator. The depth of the cable can be measured.

Features:

- Simple, intuitive operation
- Robust design
- Clearly readable display of signal strength
- Depth indicator when using Genny 4+ signal generator
- Adjustable sensitivity for optimal search results
- Selection of 4 operating modes
- StrikeAlert warns against cables buried in shallow depth
- Padded carrying bag and batteries supplied as standard

Fibre-optic cables, gas lines and water pipes cannot be located with the **CableTronic 4+**.

Nedo CableTronic 4+

| Technical data: | 705 620 |
|---------------------------|--|
| Locating accuracy | ± 5% of depth |
| Operating temperature | -20 °C to +50 °C |
| IP rating | IP 54 |
| Power supply | 2 x 1.5V mono-cells (LR20) |
| Operating time | 4 hours with alkaline batteries 14 hours with NiMH 10,000 mAh batteries |
| Weight | 2.3 kg |
| Frequency in current mode | 50 Hz and harmonics |
| Frequency in radio mode | 15 kHz to 30 kHz |



Scope of delivery **CableTronic 4+**:
CableTronic 4+ and padded carrying case

Ref.-No. 705 620



Nedo Genny 4+

The signal generator for even better location of cables.

Genny 4+ signal generator significantly improves the performance of the **CableTronic 4+** cable locator.

When cable diameters are small or radio signals are weak, lines that do not carry electric current cannot always be located with certainty. In these cases the **Genny 4+** signal generator is a great help. It creates an alternating electro-magnetic field and feeds the signal into the cables, making detection easier for **CableTronic 4+** – both at close range and at greater distances.

In addition, the depth to a located cable is displayed on the screen of the **CableTronic 4+** at the push of a button. **CableTronic 4+** measures the depth of a cable up to 4m with $\pm 5\%$ accuracy.

Various options for feeding the detection signal are available, depending on the circumstances.

- Direct connection to any metallic part of the cable
- Signal induction by placing Genny 4+ over the assumed position of the conductor, in-line with the assumed direction
- Signal clamping with the optional signal clamp

Features:

- Simple operation
- Robust design
- Choice of 2 transmitting powers
- Integrated, practical tool tray for accessories

Nedo Genny 4+

| Technical data: | 705 621 |
|-------------------------------|---|
| Operating temperature | -20 °C to +50 °C |
| Protection class | IP 54 |
| Power supply | 4 x 1.5V mono-cells (LR20) |
| Transmitting power | 0.1 W standard mode, 1 W boost mode |
| Frequency of detection signal | simultaneous double frequency: 33 kHz and 131 kHz |
| Weight | 2.7 kg |



Scope of delivery **Genny 4+**:
Genny 4+ signal generator incl. direct connection cable with crocodile clamps, ground stake and magnet

Ref.-No. 705 621

Optional accessories:

Genny clamp

This clamp is used for inductive coupling of a Genny signal to a specific conductor. They are particularly useful when direct signal coupling is not possible, or on live lines that cannot be disconnected.



Ref.-No. 705 622



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