

# COMPACT RECEIVER

## PRODUCT INSTRUCTION

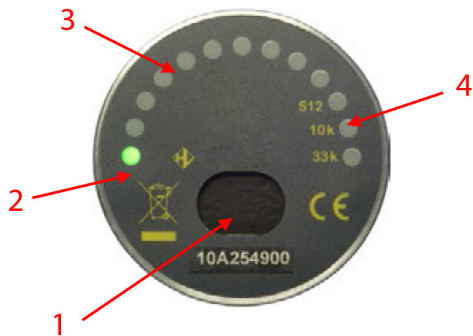


## Introduction

Compact Receiver is an easy-to-use wire, cable and duct sonde locator. Compact Receiver is compatible with all 10kHz and 33kHz transmitters and sondes, as well as 512HZ sondes for metal ducts.

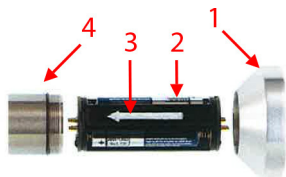
Compact Receiver can be used to trace and pinpoint duct sondes and underground cables from several metres depth. Indoors Compact Receiver can be used e.g. to locate floor heating cables and wires inside the walls.

## User interface function



1. Speaker: Indicates received signal strength; the higher pitch and volume, the stronger signal.
2. Power LED: Green LED displays power on. LED blinks if battery is weak.
3. Arc of 12 red LEDs: In normal operation arc displays received signal strength with 24 levels.
4. During start-up or mode changing LED arc has alternative meanings, see Button functions.

## Battery installation



**Battery** 3 x A/tuA (IEC LR03)  
alkaline batteries

To change the batteries, turn the user interface cap (1) off and take the battery holder (2) Place old cells with new ones. Observe battery polarity: (-) poles must be placed against the spring contacts. Insert the battery holder back into CR tube according to the arrow symbol (3). Turn the user interface cap back on the tube (4).

## Connecting probes



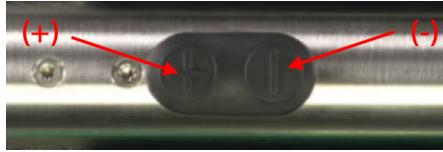
To attach a probe: Push the probe connector (1) in to CR socket (2) until the locking clicks. To remove a probe: Press the release button (3) under the rubber to release the locking and pull the probe out.

## Sonde catcher



When using duct sondes always mount sonde catcher including sponge on the ducts end.

## Button functions



(+) long press: power on/off

(+) extended pressing during start-up: makes the LED arc show firmware version

(+) releasing press during start-up: makes the LED arc briefly display batter status and the active operating frequency with one of the three right most LEDs.

(+) and (-) short presses: gain setting up or down, 5 or 7 steps available depending on connected probe. A beep sound indicates change of gain, no beep means that maximum or minimum has been reached.

(-) long press: Initiate change of receiving frequency mode:

1) Keep (-) pressed until a beep is heard

2) Keep (+) pressed until another beep is heard

3) See the LED arc 512/10k/33k LEDs briefly display the chosen frequency

4) Release both buttons

5) If necessary repeat 1 to 4 to get the right frequency. Connected probe allows choosing only frequencies supported by the probe. The three rightmost LEDs briefly display the active operating frequency also when a probe is connected.

## Maintenance, storage, warranty

**DANGER!! When using duct sondes always mount sonde catcher including sponge on the ducts end.**

CR receiver and probes do not have any parts that require maintenance by the user, excluding changing of batteries. When cleaning a soiled or wet device, clean and dry the device before removing probes or opening battery compartment to avoid dirt or water getting into the battery compartment or connectors. Do not use corrosive solvents for cleaning. If water gets into the CR battery compartment, allow it to dry at room temperature. We recommend that the units are stored in dry conditions at room temperature.

FPT is not liable for any financial losses or damages, or for any damage incurred by people, the environment, and telecommunication traffic or similar as a result of the use of or the failure to use the CR device or accessories. CR has one-year warranty for factory defects. The warranty shall not cover batteries or faults resulting from normal wear and tear or misuse. Users are advised to contact the manufacturer in case of faults or queries relating to the use of the devices.

## Compact Receiver - sondes overview - additional setup

**DANGER!!** When using duct sondes always mount sonde catcher including sponge on the ducts end.

1 2 3 4 5

Microduct sondes are small transmitter sondes intended for calibrating and locating fiber optic microducts and their blockages.



| Diameter                      | 4,6 mm | 6,4 mm | 7,5 mm | 9,0mm   | 18,0mm        |
|-------------------------------|--------|--------|--------|---------|---------------|
| Length                        | 94 mm  | 84 mm  | 114 mm | 138mm   | 85 mm         |
| Free air range                | 2,3 m  | 2,3 m  | 5,1 m  | 5,7 m   | 10,0m         |
| Operating time 20°C           | 9 h    | 9 h    | 6 h    | 10 h    | 20 h          |
| Straight duct calibration ID* | 6mm    | 8mm    | 9-12mm | 14-20mm | 21-42mm       |
| Threads                       | M3,5F  | M5F    | M5/6F  | M5/6F   | M5/6/10/12F/M |

\* Recommended air pressure for straight duct calibration - < 5 bar - use sonde catcher for impact absorption

## Technical Specification

### Protection class

IEC 60529 IP44

### Environmental conditions

Usage -40....+60oC (dry or moist conditions)

Storage -40....+60oC (dry conditions)

### Enclosure material & size

Stainless steel and aluminium, 180 x 40mm

Weight approx. 230g (no probes)

### Batteries

3pcs. 1.5V IEC LR03 (AAA)

### Sound indicator

Internal speaker

### LED indicators

Green LED, 12 red LED's for power and signal strength indication