microsonic




extract from our online catalogue:

# *LCA-2*

current to: 2026-11-20

microsonic GmbH / Phoenixseestraße 7 / 44263 Dortmund / Germany / **T** +49 231 975151-0 / **F** +49 231 975151-51 / **E** info@microsonic.de
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## Highlights

- Three-digit digital display › for the display of measured distance values in mm or cm
- TeachBox with four-button operation › for programming of the sensor without a PC
- LinkCopy function › for copying the sensor settings from one sensor to another without a PC
- Uniform microsonic teach-in for all microsonic sensors › to keep easy things easy

## Basics

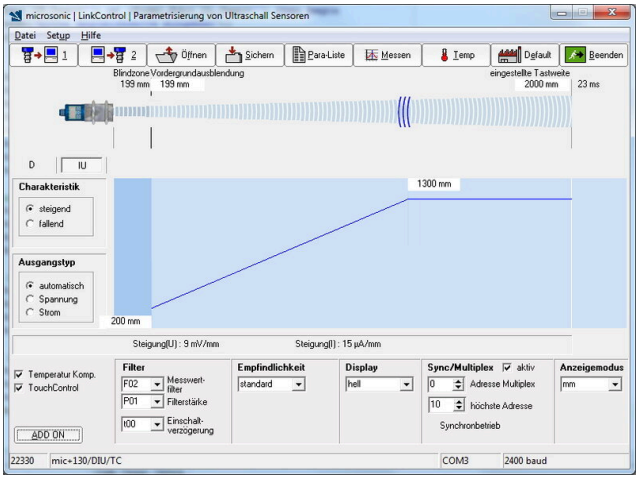
- Handy adapter › for the programming of ultrasonic sensors
- USB interface › for connection to a PC
- T plug › to insert the adapter between the connector cable and the sensor
- LinkControl software › for configuration of sensors from a PC
- Backwards-compatible › dso sensors that have been in the field for a long time can still be programmed
- Future-proof › since the LinkControl adapter will also support future generations of sensors

# The LinkControl adapter LCA-2

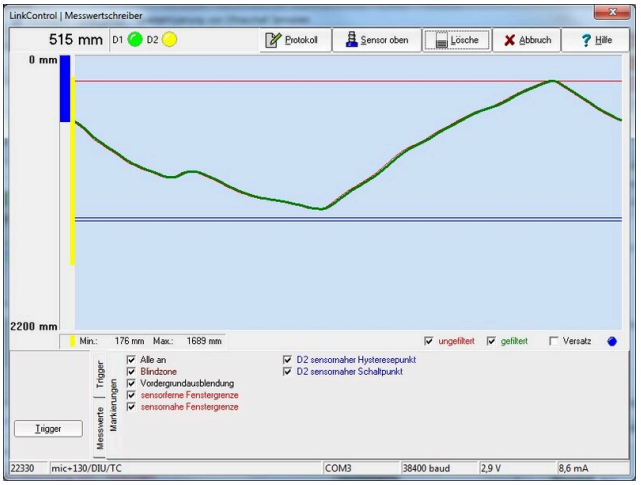
is equipped with a USB interface for connection to a PC or laptop.

## With the LinkControl software,

the ultrasonic sensors of the mic+, mic, pico+, lpc+, cube , lcs+, lcs, ucs, pico+TF, crm+, hps+, pms, bks+, bks, dbk+, esp, esf-1 and esf+1 series can be parameterised under Windows®.




*LinkControl software: input mask*




*LinkControl software: measurement plotter*

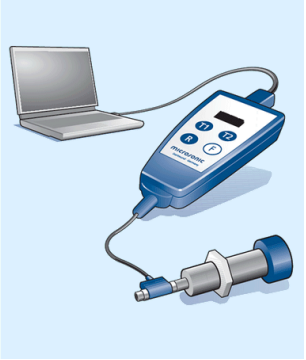
## The current measurement values

of the ultrasonic sensors can be graphically visualised in the LinkControl software in the form of three different output graphics.

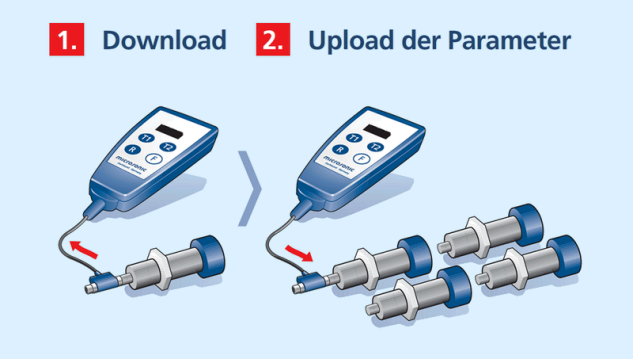
## The LinkCopy function

allows the download of parameters from the sensor to the LCA-2 and the subsequent upload of these parameters to a different sensor. This way, sensor settings can be conveniently copied from one sensor to the other.



*USB interface for PC connection*




*LinkCopy: Copying of sensor settings*

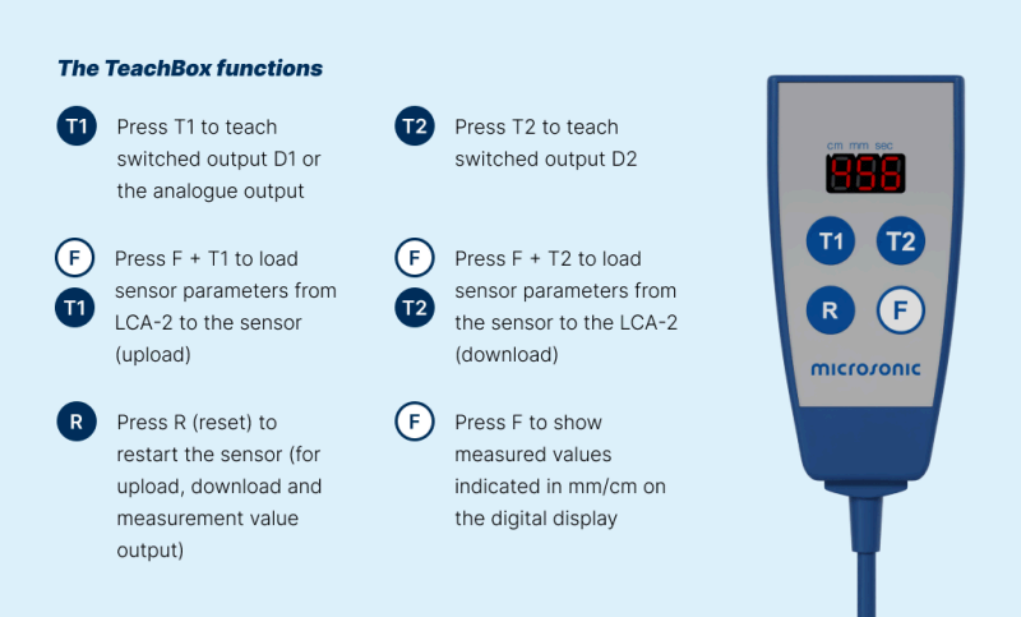
## *Offline programming within LinkCopy*

With some sensor series, the sensor settings copied to the LCA-2 can be directly indicated and edited via the digital display before being written back into a sensor.

For the LinkCopy function, the LinkControl adapter need not be connected to a PC. The LCA-2 reads the parameters out of the sensor and saves them internally to its EEPROM. The data are thus safely stored in the LinkControl adapter even after supply voltage disconnection and can consequently also be used as a sensor setting archive.

## *Via the integrated TeachBox,*

all ultrasonic sensors which are taught via pin 5 at the sensor plug (mic, pico+, lpc+, lcs, esf) can be comfortably set. The Link-Control adapter LCA-2 is looped in between the sensor connection line and the sensor; a PC or laptop is not required. During the teach-in process via buttons T1 and T2, the length of the button stroke is indicated in seconds on the display.




*The TeachBox*

## *Which sensor families support LinkControl and LinkCopy?*

| | Link-Control | Link-Copy |
|---|---|---|
| **mic+** | + | + |
| **mic** | + | + |
| **wms** | - | - |
| **crm+** | + | + |
| **hps+** | + | + |
| **pico+TF** | + | + |
| **pico+** | + | + |
| **pico+/F/A** | + | - |
| **lpc+** | + | - |
| **nano** | - | - |
| **nero** | - | - |

*Cylindrical Sensors*

| | LinkControl | LinkCopy |
|---|---|---|
| **cube** | + | - |
| **lcs+** | + | + |
| **lcs** | + | - |
| **sks** | - | - |
| **ucs** | + | - |
| **zws** | - | - |

*Cubic Sensors*

| | Link-Control | Link-Copy |
|---|---|---|
| **bks** | + | + |
| **bks+/A** | + | - |
| **dbk+** | + | - |
| **esf+1** | + | - |
| **esf-1** | + | - |
| **esp-4** | + | - |
| **ews** | - | - |
| **pms** | + | + |

*Special Sensors*

## *Get the current LinkControl software!*

Version 8.2

This version supplies our new sensors: pms, pico+, pico+TF, cube , lcs+, hps+, dbk+, esp-4, esf-1, esf+1 and bks+. For an update we recommend to delete the existing LinkControl software under Windows beforehand.

# LCA-2

| | |
|---|---|
| operating mode | accessories |

## Electrical Data

| | |
|---|---|
| operating voltage $U_B$ | 12 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 25 mA |
| type of connection | 4-pin M12 initiator plug |

## Inputs

| | |
|---|---|
| input 1 | com input |

## Housing

| | |
|---|---|
| material | ABS |
| class of protection to EN 60529 | IP 20 |
| operating temperature | +5°C to +60°C |
| storage temperature | -40°C to +85°C |
| weight | 150 g |

## Technical Features/Characteristics

| | |
|---|---|
| controls | 4 push-buttons + LED display (TouchControl) |
| indicators | 3-digit LED display |

## Accessories

| | |
|---|---|
| deployable accessory | For the convenient setting of a large number of microsonic sensor families. The LinkControl-Adapter LCA-2 can be used to read, copy or write parameters. Additionally, you can connect it with a PC in order to configurate it via LinkControl Software. |