

microsonic

EVERY
THING
ULTRA
SONIC

Extract from our online catalogue:

LCA-2

Current to: 2023-11-13



The LCA-2 facilitates the comfortable setting of numerous microsonic sensor series.

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** › free [download](#) of the current version on the Internet
- › **Backwards-compatible** › so 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

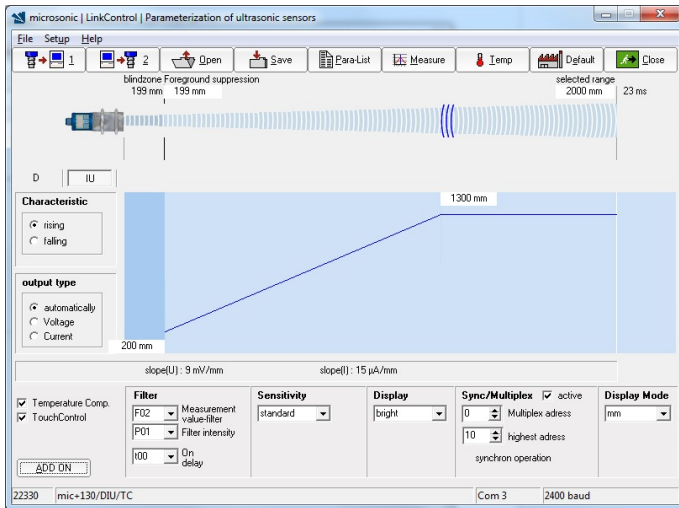
Description

The LinkControl adapter LCA-2

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

With the LinkControl software,

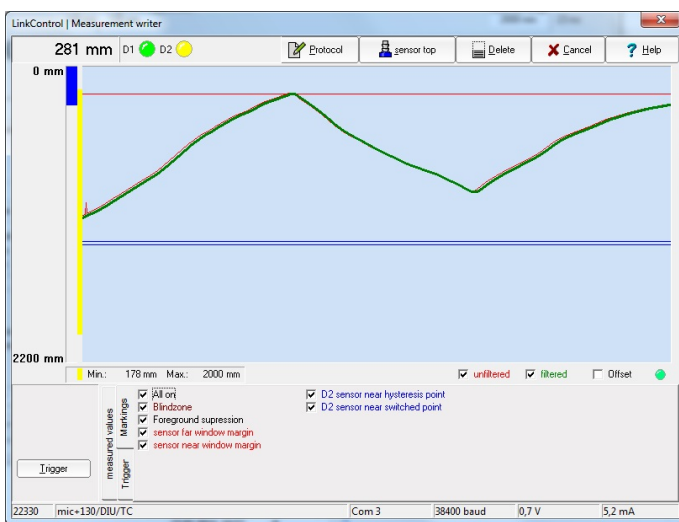
the ultrasonic sensors of the mic+, mic, pico+, lpc+, lcs+, lcs, ucs, pico+TF, crm+, hps+, pms, bks+, bks, dbk+, esp and esf series can be parameterised under Windows®.



LinkControl software: input mask

The current measurement values

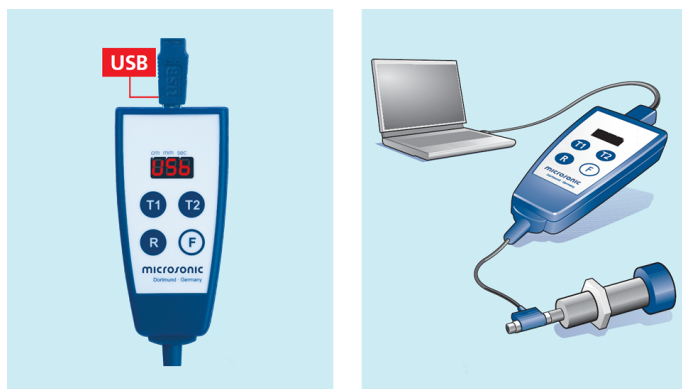
of the ultrasonic sensors can be graphically visualised in the LinkControl software in the form of three different output graphics.



LinkControl software: measurement plotter

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.

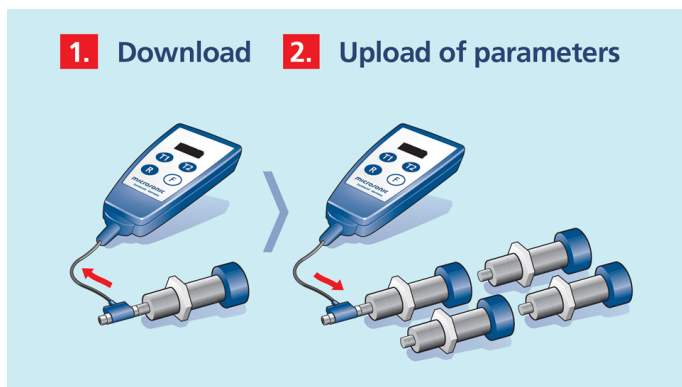


USB interface for PC connection

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.




LinkCopy: Copying of sensor settings

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 functions



- T1** Press T1 to teach switched output D1 or the analogue output
- T2** Press T2 to teach switched output D2
- F** Press F+ T1 to load sensor parameters from LCA-2 to the sensor (upload)
- T1**
- F** Press F+T2 to load sensor parameters from the sensor to the LCA-2 (download)
- T2**
- F** Press F to show measured values indicated in mm/cm on the digital display
- R** Press R (reset) to restart the sensor (for upload, download and measurement value output)

The TeachBox & LinkCopy

Which sensor families support LinkControl and LinkCopy?

Cylindrical Sensors

	LinkControl	LinkCopy
mic+	+	+
mic	+	+
wms	-	-
crm+	+	+
hps+	+	+
pico+TF	+	+
pico+	+	+
pico+/F/A	+	-
lpc+	+	-
nano	-	-

	LinkControl	LinkCopy
nero	-	-

Valid from version LinkControl (Rev. A)

Cubic Sensors

	LinkControl	LinkCopy
lcs	+	+
lcs+	+	+
sks	-	-
ucs	+	+
zws	-	-

Special Sensors

	LinkControl	LinkCopy
bks	+	+
bks+	+	+
dbk+	+	-
esf	+	-
esp	+	-
ews	-	-
pms	+	+

Get the current LinkControl software! Version 8.0

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



LCA-2

scale drawing

detection zone

operating mode	accessories
description	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 configure it via LinkControl Software.

electrical data

operating voltage U_b	12 - 30 V d.c., reverse polarity protection
voltage ripple	$\pm 10 \%$
no-load current consumption	$\leq 25 \text{ mA}$
type of connection	4-pin M12 initiator plug

inputs

description	USB interface
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

order no.	LCA-2
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Specifications in this document are presented in a descriptive way only. They do not warrant any product features.

LCA-2 Koffer

scale drawing

detection zone

operating mode	accessories
description	Set for convenient setting of a number of microsonic sensor families. Contents: LCA-2 - Adaptor for sensors with cable connection (lcs) incl. cable clamps - Adapter for power supply incl. cable clamps - Power supply 90-240VAC/24VDC, 625 mA, with 2,5 m cable - four exchangeable AC-plugs for use in Europe, USA, Great Britain and Australia - USB - cable A-plug to B-plug - USB stick with LinkControl software - Manual (German / English)
particularities	incl. adapter cable and 24V power pack

electrical data

operating voltage U_B	12 - 30 V d.c., reverse polarity protection
voltage ripple	$\pm 10 \%$
no-load current consumption	$\leq 25 \text{ mA}$
type of connection	4-pin M12 initiator plug

inputs

description	USB interface
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	1,700 g

technical features/characteristics

controls	4 push-buttons + LED display (TouchControl)
indicators	3-digit LED display
particularities	incl. adapter cable and 24V power pack

LCA-2 Koffer

order no.

LCA-2 Koffer

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Adapter 5G/M12-4G/M12/M8

scale drawing

detection zone

operating mode

accessories

description

Connection of sensors with 4 contacts M12 or M8 connector at the LinkControl Adapter

housing

connector

M8 or M12

number of contacts

4

wire material

PVC

order no.

Adapter 5G/M12-4G/M12/M8

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