

**Thank you for choosing a NIVELCO instrument.**  
**We are sure that you will be satisfied throughout its use.**

## 1. APPLICATION

The AnaCONT LCK 2-wire mini compact conductivity transmitters are designed to measure the conductivity of a liquid and convert the input signal to 4 – 20 mA output. They are suitable for measuring clean, non-crystallizable liquids.

The design of the transmitter, the wide temperature range and various mounting positions make possible the use in diverse industrial applications.

## 2. TECHNICAL DATA

TYPE	LCK-2□□□□
Measuring range	1 – 2000 uS/cm
Accuracy	Typically: 3%, max. 5%
Medium temperature	-10 °C ... +70 °C (14 °F ... +158 °F)
Ambient temperature	0 °C ... +70 °C (32 °F ... +158 °F)
Material of wetted parts	Process connection and housing: Stainless steel DIN 1.4571
Output	4 – 20 mA
Power supply	12 – 36 V DC
Max. load	$R_L \leq \frac{U_s - 12 V}{0.02 A} \Omega$
Process connection	As order code
Electrical connection	Pg 9 DIN 43650 connector
Ingress protection	IP65
Electrical protection	Class III.
Process Pressure	16 bar (232 psi)
Mass	~0.35 kg (~ 0.77 lbs)

## 2.2 ORDER CODE

ANACONT LCK – 2

Measuring range	Code	Process connec.	Code
1–20 μS/cm (k=0.01)	1	BSP ¾"	1
10–200 μS/cm (k=0.1)	2	BSP 1"	2
100–2000 μS/cm (k=1)	3		

Output	Code
4 – 20 mA	2
4 – 20 mA+HART	4

## 2.3 ACCESSORIES

- Declaration of Conformity
- User's Manual
- Certificate of Warranty

# AnaCONT LCK

MINI COMPACT CONDUCTIVITY  
TRANSMITTERS

USER'S MANUAL



Manufacturer:

**NIVELCO Process Control Co.**

H-1043 Budapest, Dugonics u. 11.

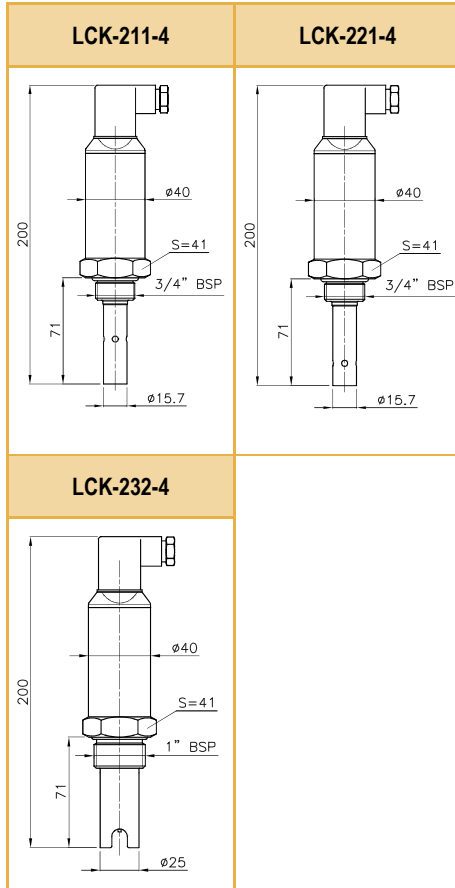
Phone: (36-1) 889-0100 ■ Fax: (36-1) 889-0200

E-mail: sales@nivelco.com ■ www.nivelco.com



NIVELCO

### 3. DIMENSIONS



### 3.1 INSTALLATION

Due to small dimension and light weight of the transmitter it can be mounted directly on tanks, pipelines, machines without any console or support. In open-air installations the instrument should be protected against rain or moisture with a protection shield. The incorrect sealing (loosen screw of the PG9 connector) may cause instrument failure.

### 3.2 INSTALLATION INSTRUCTIONS

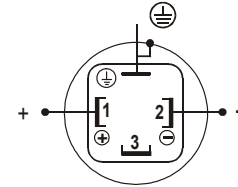
The unit should be screwed in or out only by the S41 sized groove on the housing.

**Don't use a pipe-wrench for tightening or loosening the unit!**

After screwing out the screw of the PG9 connector the cables can be connected to the terminals. Feed the cables through the cable gland and connect to the appropriate terminals. Tighten the screw to ensure proper sealing of the connector.

To avoid disturbing signals the housing of the instrument is grounded. If the grounding of the process is correct no further grounding is needed. Otherwise the instrument should be grounded at the control room side. (This is strongly advised.)

### 4. WIRING



### 5. MAINTENANCE, REPAIR



Please note that the sensor may need regular cleaning and degreasing depending on the application to ensure proper functioning. Contaminations that remain on the probe can result in incorrect readings. Avoid touching the probe and keep it away from dusty environments.

The instrument does not require maintenance on a regular basis other than those mentioned above. Repairs will be performed at the Manufacturer's premises.

### 6. STORAGE

Ambient temperature: -20 °C ... +85 °C  
(-4 °F ... +185 °F)  
Relative humidity: max. 98%

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NIVELCO reserves the right to change technical data without notice.