

ANALYTICAL INSTRUMENTS

AnaCONT

CONDUCTIVITY TRANSMITTERS



3 YEARS WARRANTY @ NIVELCO – WHERE ELSE?

NIVELCO

ANALYTICAL INSTRUMENTS

MAIN FEATURES

- Mini compact design
- Measuring range: 1 $\mu\text{S}/\text{cm}$ - 2000 $\mu\text{S}/\text{cm}$
- Application oriented measuring range selection
- Optional external plug-in display
- 4-20 mA, HART communication
- IP68 probe

APPLICATIONS

- Water production
- Water processing
- Water purification
- Wastewater treatment
- Pharmaceutical industry
- Food and beverage industry



GENERAL DESCRIPTION

The AnaCONT 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-crystallising liquids. The design of the transmitter and its applicability in wide temperature range allow its operation in diverse industrial applications.

AnaCONT IN SYSTEM WITH A PC

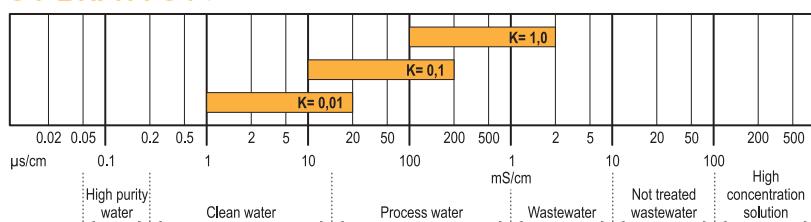
The instrument with HART output can be connected to a PC using a UNICOMM HART-USB modem. Max. 15 normal (non Ex) instruments can be connected to a HART line. Measured values can be visualised and/or the instruments can be programmed via digital HART communication. Applicable software: EView 2 configuration software or NIVISION process visualization software.



AnaCONT IN SYSTEM WITH MultiCONT

The MultiCONT can handle digital data coming from a maximum 15 HART capable transmitters (conductivity, pH, ORP, temperature, level, pressure). The digital (HART) information is processed, displayed and transmitted via RS485 communication line to a PC when needed. Remote programming of the transmitters is also possible. Visualisation on PC can be accomplished with NIVISION process visualization software.

OPERATION



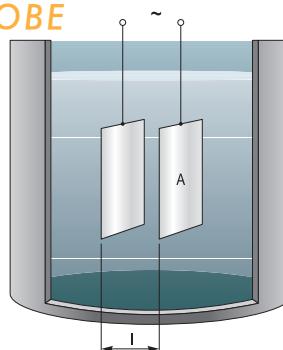
ORDER CODES

AnaCONT mini compact conductivity transmitters

AnaCONT LCK - 2 [] - []

Measuring range	Code	Proc. connection	Code	Output	Code
1-20 $\mu\text{S}/\text{cm}$ (K=0.01)	1	BSP 3/4"	1	4 - 20 mA	2
10-200 $\mu\text{S}/\text{cm}$ (K=0.1)	2	BSP 1"	2	4 - 20 mA + HART	4
100-2000 $\mu\text{S}/\text{cm}$ (K=1)	3	(only with K=1 probe)			

PROBE



$$K = \frac{l}{A} \quad l = \text{distance between electrodes} \quad A = \text{electrode surface}$$

Accessories

UNICONT PLK-501-2 plug-in display
UNICONT PLK-501-3 plug-in display with PNP output

TECHNICAL DATA

Type	AnaCONT LCK mini compact
Measurement data	
Range	1 $\mu\text{S}/\text{cm}$ - 20 $\mu\text{S}/\text{cm}$ 10 $\mu\text{S}/\text{cm}$ - 200 $\mu\text{S}/\text{cm}$ 100 $\mu\text{S}/\text{cm}$ - 2000 $\mu\text{S}/\text{cm}$
Measurement error	typically 3 % ± 1 digit (max. 5 %)
Power supply	12-36 V DC galvanically isolated, protection against surge transients
Probe	2-electrodes, built-in
Cell constant	K=0.01; K=0.1; K=1
Output	
Analogue	4 - 20 mA
Display	Optional UNICONT PLK-501, external
Digital communication	4 - 20 mA + HART
Medium temperature	-10 °C ... +70 °C (14 °F ... +158 °F)
Medium pressure	0 - 1.6 MPa (0 - 16 bar g / 0 - 232 psi g)
Ambient temperature	0 °C ... +70 °C (32 °F ... +158 °F)
Sealing material	Viton
Ingress protection	Probe: IP 68 / Connector: IP 65
Housing material	1.4571 stainless steel
Probe material	1.4571 + PP
Electrical connection	Pg9 DIN 43650 connector
Electrical protection	Class III.

