AnaCONT

COMPACT CONDUCTIVITY TRANSMITTERS

New!

FEATURES
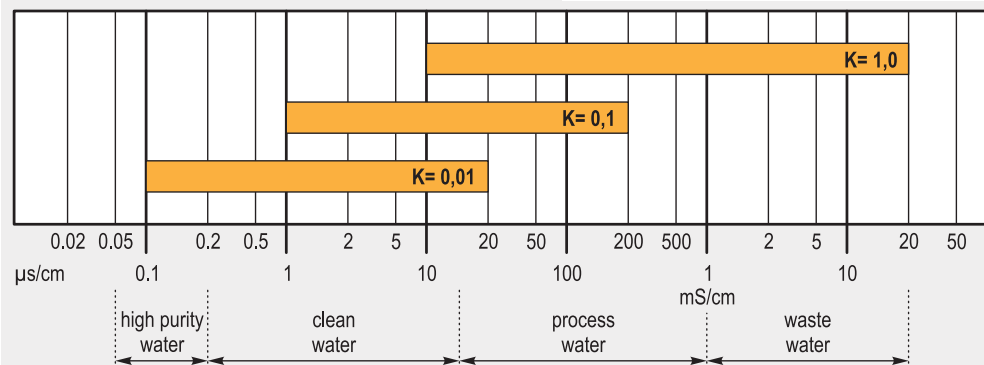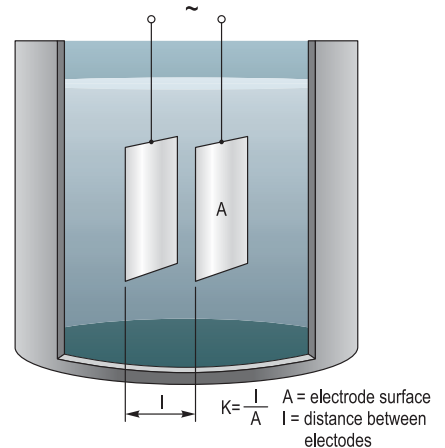
- *Compact and mini compact versions*
- *Separated versions up to 10m*
- *Measuring range: 0.1 µS/cm – 20 mS/cm*
- *Replaceable or built-in probes*
- *Wide range of probes*
- *Cell constants: K=0.01; K=0.1; K=1*
- *Temperature compensation*
- *Graphical plug-in display*
- *Optional external display*
- *4..20 mA / HART / Relay output*

OPERATION

Two probes are immersed into the measured liquid. The distance between the probes and their surface define the cell constant (K) of the instrument.

Connecting AC voltage to the electrodes the electronics measures the conductivity of the liquid between the probes. This measured value is converted to 4…20 mA output signal.

The cell constant defines the measuring range and thus the application area.

$$K = \frac{l}{A}$$

A = electrode surface
l = distance between electrodes

µs/cm	0.02	0.05		0.2	0.5		2	5		20	50		200	500		2	5		20	50
		0.1			1			10			100			1 mS/cm			10			

K= 1,0
K= 0,1
K= 0,01

high purity water — clean water — process water — waste water

NIVELCO

TECHNICAL DATA

TYPE		AnaCONT L☐K (compact)	AnaCONT LC☐ (mini compact)
Measurement data	Range	0.1 μS/cm – 20 mS/cm	1 μS/cm – 2000 μS/cm
	Accuracy	0.1 % ±1 digit ±0,01 % / °C	3 % ±1 digit
Temperature measurement		Range: -50 °C … +130 °C ；Accuracy: ±0.5 °C ；Resolution: 0.1 °C	
Power supply		12-36 V DC galvanic isolation, protected against surge transients	
Probe input		2-wire conductive, galvanic isolation	
Probe		Replaceable	Built-in
		Cell constant K=0.01; K=0.1; K=1	
Output	Analogue	4 … 20 mA	
	Relay	SPDT 30 V DC, 1 A DC	–
	Display	SAP-300 dot matrix	Optional: Unicont PLK-501, external
	Digital	HART	
Process temperature		-10 °C … +90 °C	
Process pressure		0-1.6 MP (0-16 bar)	
Ambient temperature		-10 °C … +70 °C	
Sealings		EPDM, Viton	Viton
Ingress protection		IP68 / IP67	
Housing material		Plastic, Aluminium	1.4571 Stainless Steel
Material of probe socket		St. st. + PP, PVDF, epoxi	St.st. + PP
Electrical connection		2 x M20 x1.5 cable gland	DIN43650 connector
Electrical protection		Class III.	
Ex marking		II 1 G EExia IIB T6 IP67	–

Plug-in displays

AnaCONT IN SYSTEM WITH A PC

The instrument with HART output can be connected to a PC using a SAT-304 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** configuration software or **NIVISION** process visualization software.
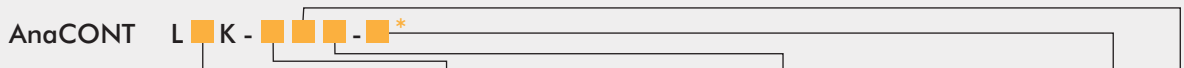

AnaCONT IN SYSTEM WITH MULTICONT

MULTICONT can handle a max. of 15 HART capable transmitters (conductivity, pH, ORP, temperature, level, pressure). The digital (HART) information is processed, displayed and if needed it can be transmitted via RS485 communication line to a PC. Remote programming of the transmitters is also possible. Visualisation on PC can be accomplished with **NIVISION** process visualizaiton software.

ORDER CODE

AnaCONT compact conductivity transmitters

AnaCONT   L ☐ K - ☐☐☐ - ☐ *

Type	Code
Compact	E
Compact + display	G

Housing mat.	Code
Plastic	1
Aluminium	2

Proc. conn. / Mat.	Code
BSP 1 1/2 " / PP	1
BSP 1 1/2 " / PVDF	2
NPT 1 1/2 " / PP	4
NPT 1 1/2 " / PVDF	5

Output / Ex	Code
4…20 mA	2
4…20 mA+HART	4
4…20 mA / Ex	6
4…20 mA+HART / Ex	8
4…20 mA / Relay	R
4…20 mA+HART / Relay	H

AnaCONT mini compact conductivity transmitters

AnaCONT   L C K - 2 ☐☐ - ☐

Measuring range	Code
1-20 μS/cm (K=0.01)	1
10-200 μS/cm (K=0.1)	2
100-2000 μS/cm (K=1)	3

Process conn.	Code
BSP 3/4"	1
BSP 1" (only with K=1 probe)	2

Output	Code
4…20 mA	2
4…20 mA +HART	4

Measuring range	Code
0.1-20 μS/cm (K=0.01)	1
1-200 μS/cm (K=0.1)	2
1-20 mS/cm (K=1)	3

* the order code of an Ex version should end in 'Ex'