



0022.0410 ISO transducer for conductivity

in DIN rail housing with automatic temperature compensation and galvanic isolation.

The instrument converts the conductivity of the measured solution into a low-impedance output signal of 0(4)..20mA or 0..5/10V.

CC means cell constant

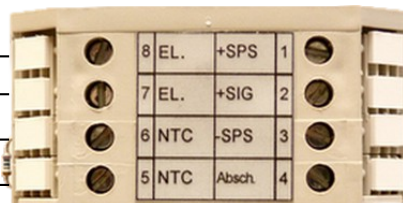
Technical data: (subject to change)

Measuring input conductivity Specifications are always in /cm	2μS...100mS with CC001...CC5 Fix: 200mS for CC1 / 1S for CC5
Output	0(4)...20mA / 0...5 / 10V According to the type plate
Accuracy / Linearity Adjustment with 5m cable 0,34mm	+/- 1%, -2% at 20mS, -5% at 200mS
Temperature sensor input for temperature compensation	NTC 2K-Ohm all e.c.-measuring cells LMN
Temperature compensation	approx. 2,2%/°C natural water
Reference temperature	25°C
Operating voltage	12VDC / 24VDC +/- 10% regulated According to the type plate
Power consumption	max. 50mA
Ambient temperature	0...60°C
Degree of protection	IP20
Dimensions H x W x D	75 x 60 x 30mm
Weight	70 gram

Max. length of the measuring cell cable approx. 100m

electrodes

NTC or 2KOhm fixed resistor



12VDC / 24VDC +/- 10% regulated

Signal output to the PLC

PLC ground shielding



The NTC is required for temperature compensation of the measuring solution.

For the temperature-compensated e.c. measurement, the NTC should be connected if the medium temperature deviates from approx. 25°C.

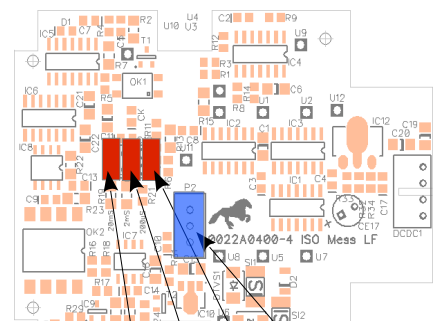
In this case, remove the fixed 2KOhm resistor.

The fixed resistor can remain installed if the LF measurement is carried out at a medium temperature of approx. 25°C or if uncompensated measurement is required.

Terminals 5 and 6 must always be assigned, by NTC or by fixed resistor.

Useful measuring cell combinations:

	Jumper 20mS	Jumper 2mS	Jumper 200μS
CC5	100mS		
CC1	20mS	2mS	200μS
CC01		200μS	20μS
CC001		20μS	2μS



Poti 4mA

Poti 20mA / 5V / 10V

Jumper für 20mS 2mS 200μS

After opening the housing cover the jumpers and the potentiometers are accessible.

With large lengths of the measuring cable, the adjustment can be corrected with the potentiometers. A reference device or a reference solution is required for this.