MUH04-LF

conductivity transmitter for computer systems/PLC

The MUH04-LF is a conductivity transmitter designed with an AC input amplifier and a galvanically isolated signal generator. The alignment of the conductivity electrode can be precisely adjusted by a potentiometer on the front. Temperature compensation of the measured value is available by a NTC-resistor within the measuring cell. The housing is suitable for rail mounting. The connection of the measuring cell as well as the power supply and the signal output are established by screw terminals.

Features

- galvanically isolated generator and transducer input for direct connection of the conductivity cell
- precise alignment of the conductivity electrode
- selectable measuring range
- selectable output signal
- selectable temperature compensation
- compact polyamide housing for rail mounting (according to DIN EN 60715)

Application fields

- conductivity measurement of PLC and computer systems
- continuous and batch waste water treatment plants
- pure water and ultra-pure water plants, desalination and recirculation systems
- exhaust systems
- final inspection and monitoring

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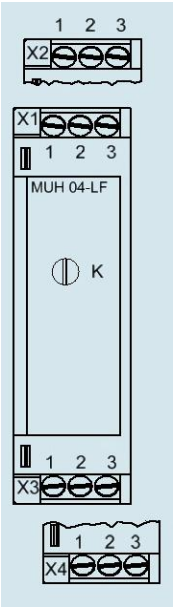
Connections

No.	Description
X1-1	voltage output signal
X1-2	voltage output ground
X1-3	mass flow output
X2-1	voltage supply
X2-2	voltage supply
X2-3	current output signal
X3-1	not assigned
X3-2	not assigned
X3-3	not assigned
X4-1	conductivity generator / NTC
X4-2	conductivity receiver
X4-3	NTC



Technical data

Parameter	Description	Order code: MUH04-LF-
generator and amplifier	high-impedance AC measurement, galvanically isolated output	
measuring range (other ranges on request)	0 to 200 µS/cm, K = 0.1 cm^{-1}	M020/0.1
	0 to 2000 µS/cm, K = 0.1 cm^{-1}	M2/0.1
	0 to 2000 µS/cm, K = 1.0 cm^{-1}	M2/1.0
	0 to 20 mS/cm, K = 1.0 cm^{-1}	M20/1,0
	0 to 200 mS/cm, K = 10.0 cm^{-1}	M200/100
correction range	±10 %	
voltage supply	24 V DC nominal, ±10 %	
power consumption	< 1 VA	
voltage or current output	0 to 10 V (short circuit proof)	V0
	0 to 20 mA	S0
	4 to 20 mA	S4
max. load	600 Ω	
min. load resistance	10 kΩ	
temperature compensation	none	-
	NTC	AT
connection	12-pin screw terminal connection	
dimension	23 mm x 75 mm x 101 mm (W x H x D)	
permitted operating conditions	0 to +60 °C, < 80 % RH	
permitted storage conditions	-40 to +70 °C, < 80 % RH	
permitted degree of pollution	2 (according to DIN EN 60664-1)	
protection	IP30	
weight	90 g	

Please specify measuring range, voltage or current output and whether a temperature compensation is desired when ordering. Specifications are subject to modifications.

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