

MUH04-pH

pH transmitter for computer systems/PLC



The MUH04-pH is a pH transmitter with a high-impedance, galvanically isolated pH input. The asymmetry potential and slope of the pH electrode can be precisely adjusted by two potentiometer on the front of the device. The connection of the pH electrode is established by a BNC connector or by screw terminals. The housing is suitable for rail mounting according to DIN EN 60715. The power supply and signal output terminals are connected by screw terminals.

Features

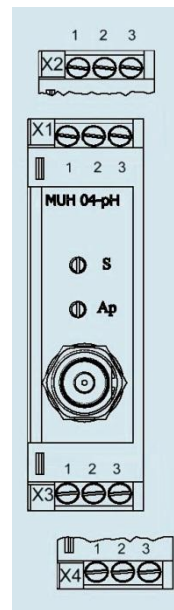
- high-impedance converter for direct connection of an isolated pH electrode
- precise adjustment of zero point and slope of the amplifier to the electrode
- selectable measuring range
- selectable output signal
- compact polyamide housing for rail mounting (according to DIN EN 60715)

Application fields

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

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	pH electrode signal
X3-2	pH electrode shield
X3-3	not assigned
X4-1	not assigned
X4-2	not assigned
X4-3	not assigned



Technical data

Parameter	Description	Order code: MUH04-pH-
input	high-impedance voltage measurement, galvanically isolated power supply and the output	
measurement range	pH 0 to pH 14 (equivalent ± 410 mV at 20 °C)	014
	pH 2 to pH 12 (equivalent ± 300 mV at 20 °C)	212
Ap-setting	± 1.5 pH	
S-setting	40 to 60 mV/pH	
power supply	24 V DC nominal, ± 10 %, galvanically coupled with voltage and current output	
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	
minimum load resistance	10 k Ω	
temperature compensation	none	
connection	12-pin screw terminal	
dimension	23 mm x 75 mm x 101 mm (W x H x D)	
mounting depth	128 mm with a BNC connector angle terminal	
operating conditions	0 to +60 °C, < 80 % RH	
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 and voltage or current output when ordering.

Specifications are subject to modifications.