MR48pHD



pH measurement and control device with limit switch



The MR48pHD is a high-resolution conductivity measurement, display and control device. It is equipped with a digital display as well as an asymmetry and slope potentiometer for each limit. The desired value can be adjusted with a third potentiometer. An LED indicates the limit switch condition. The limit can be displayed by using an additional button. The compact design according to DIN IEC 61554 is made of flame-retardant noryl and designed for panel mounting. The device is connected via screw-type connectors on the back side.

Features

- high-impedance converter for direct connection of a pH electrode
- 3 ½-digit LCD display, digit height 12.7 mm
- limit value (changeover contact) programmable and displayable
- limit switch contact selectable as exceeding or undercut switch
- switching status indicated by LED
- precise adjustment of zero point and slope of the amplifier to the electrode
- selectable measuring range
- selectable current output
- selectable power supply
- selectable temperature compensation
- quick and easy installation in the panel outbreak via spring clips that can be attached to the housing wall

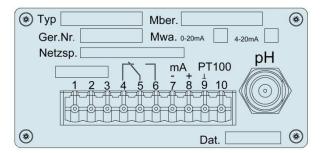


Application fields

- swimming pools, fish farming, breweries
- sewage treatment plants, landfills and power plants
- continuous and batch waste water treatment plants
- pure and ultra-pure water plants
- · exhaust systems and desalination
- recirculation systems
- final inspection and monitoring

Connections

No.	Description
1	power supply
2	power supply
3	power supply
4	relay, break contact (RK)
5	relay, middle contact (MK)
6	relay, normal open (AK)
7	0 to 20 mA / 4 to 20 mA (-)
8	0 to 20 mA / 4 to 20 mA (+)
9	ground PT100 (PT $_{\perp}$)
10	PT100 (PT)





Technical data

Parameter	Description	Order code: MR48pHD-	
	pH 0 to pH 14	014	
measuring range (factory set)	pH 0 to pH 10	010	
(ractory set)	pH 2 to pH 12	212	
resolution	0.01 pH		
	230 V AC, 50-60 Hz / 6 VA, -15 % to +10 %	230AC	
power supply	120 V AC, 50-60 Hz / 6 VA, -15 % to +10 %	120AC	
(factory set)	24 V AC	24AC	
	24 V DC	24DC	
current output	0 to 20 mA	S0	
(factory set, non-isolated)	4 to 20 mA	S4	
limit control output contact (potential free)	250 V AC / 2 A or 250 V DC / 2 A		
switching point	undercut	SN	
switching point	exceeding	SH	
limit adjustment range	according to measuring range		
Max. load	600 Ω		
temperature compensation	none	_	
temperature compensation	automatic, with PT100 (2-wire connection)	AT	
	3 ½-digit LCD display, digit height 12.7 mm		
	limit-state indication by yellow LED		
front	button to display the limits		
Hone	potentiometer for setting limits		
	potentiometer for slope adjustment		
	potentiometer for balancing asymmetry potential		
connection	10-pin screw terminal		
connection	BNC-connector (pH electrode connection)		
dimension	96 mm x 48 mm x 150 mm (W x H x D including connectors)		
panel cut out	91.3 mm x 45.2 mm, ±0.2 mm		
permitted storage and operating conditions	0 to +40° C, < 80 % RH		
permitted degree of pollution	2 (according to DIN EN 60664-1)		
protection	front: IP40		
protection	rear: IP20		

Please specify measuring range, signal output, power supply, switch and whether a temperature compensation is desired when ordering.

Specifications are subject to modifications.