KROHNE Quick Start

For initial set up, we strongly recommend that you also refer to the relevant manuals!

Water Analysis Panel For water quality measurement

Installation, assembly, start-up and maintenance may only be performed by appropriately trained personnel.

 \swarrow Check the nameplate for correct operating conditions.

This instrument complies with requirements of Low Voltage Directive. Instruments must not be connected to power supply before reading instructions described in the manual.

The responsibility as to the suitability, intended use and corrosion resistance of the used materials against the measured fluid of this device rests solely with the operator.

For complete documentation about the different devices mounted on the panels (manuals, supplementary manuals, data sheets and certificates) please refer to www.krohne.com/Downloads.

1 Module versions

/4\

§

i



2 Installation

Panel mounting



r									
Dimensions									
		[1	nm]	[inch]					
а			700	27.56					
b			400	15.75					
c (depth)		11	9-229	4.69-9.02					
Weight									
	Modu	le	[kg]	[lb]					
1	PVC		3.0	6.61					
	SS		6.6	14.55					
2	PVC	IND	5.1	11.24					
		ODO	5.3	11.69					
	SS	IND	8.7	19.18					
		ODO	8.9	19,62					
3	PVC	1 MC	5.4-5.6	11.91-12.35					
		2 MC	5.9-6.1	13.01-13.45					
	SS	1 MC	8.9-9.1	19.62-20.06					
		2 MC	9.4-9.6	20.72-21.16					
PVC = panel material PVC SS = panel material stainless steel MC = number of measuring cells									
Weight of Module 3 depending on sensor type (pH/ORP/Cond)									

1. Mark the 4 holes with a suitable pen.

2. Drill the holes and fasten the modules securely to the wall by using the distance holders.

3. Carry out tubing with a suitable hose DN 6/4 mm (OD/ID) or 0.25" (OD) at the sample inlets and outlets.

It is advantageous to place module 1 for turbiditiy measurement in the left position, as a pressure reducer for max. 6 bar inlet pressure is integrated in the inlet, which protects all downstream components against overpressure.

KROHNE

3 Electrical connection

All work

All work on the electrical connections may only be carried out with the power disconnected. Take note of the voltage data on the nameplate. Observe the national regulations for electrical installations.

MAC 100: Terminal compartment



OPTISYS TUR 1060: Boards and cable glands



5 Technical data

Installation conditions								
Installation	Wall installation with sample feed							
Protection class	MAC 100: IP 66/67 OPTISYS TUR 1060: IP 66							
Sample flow connections	Connections for 6/4 mm (OD/ID) and 0.25" (OD) hoses							
Drill hole 10 mm / 0.39"								
Inputs and outputs	MAC 100		OPTISYS TUR 1060					
Current output	ent output 3 x 420 mA		1 x 420 mA					
Relays	3x (optional)		2x					
Control input 1x			-					
Modbus	-		Bi-directional, RS-485 Modbus RTU / ASCII					
Operating conditions	Module 1	Module 2		Module 3				
Ambient temperature	+1+50°C / +34+122°F	+1+50°C / +34+122°F		+1+50°C / +34+122°F				
Process temperature	+1+50°C / +34+122°F	+1+50°C / +34+122°F		+1+50°C / +34+122°F				
Max. operating pressure	17 bar / 14.5101.5 psi	6 bar at 20°C (87 psi at 68°F)		6 bar at 20°C (87 psi at 68°F) OPTISENS pH/ORP 8500: 2 bar at 20°C (29 psi at 68°F)				
Min. flow rate	0,1 l/min / 0.026 gal/min	-		-				
Min. conductivity	-	625 µS/cm for OPTISENS IND 1000		Depending on sensor type				
Material								
Wetted parts	Nylon, borosilicate glass, silicon, polypropylene, stainless steel AISI 304, Viton, Acetyl	PVC for OPTISENS ODO 2000; PP for OPTISENS IND 1000		Flow cell: Acrylic glass Sealings: EPDM Valves: PP Sensor material: depending on sensor type				
Mounting plate PVC white or stainless steel 1.4301								

Contact

To view all KROHNE locations and contact details visit:

www.krohne.com

Then "Select your country" from the drop down list at the top left of the page.