

Fields of Application and Product Overview

IQ SENSOR NET - the system for wastewater treatment plants and more applications

The digital and modular IQ SENSOR NET provides many unique advantages. Since 2001 our customers have enjoyed making the most out of the IQ SENSOR NET modular design. It enables you to easily expand the network with new members. This provides great flexibility and peace of mind that you are completely safe for all wastewater monitoring requirements in the future.

- Integrated overvoltage protection of all components (sensors, modules, cables)
- Reduce cost of installation with universal sensor connection and 2 wired cables rather than multiple power and output cables
- Intuitive design to operate and expand



At the beginning of your planning, make your decision between 3 systems:

	Network System 2020		Measuring Location System 282 / 284		Single Parameter Measuring Point System 281
	MIQ/TC 2020 3G	MIQ/MC3	DIQ/S 284	DIQ/S 282	DIQ/S 281
Connectable sensors	20	20	4	2	1
Displayable parameters	20	20	20	20	1
USB interface	✓	✓	✓	✓	✓
Ethernet interface	✓	✓	✓	✓	
System access via IQ WEB CONNECT	✓	✓	✓	✓	
Field bus connection	✓	✓	✓	✓	
Data memory	✓	✓	✓	✓	✓
IQ sensors with universal sensor connection	✓	✓	✓	✓	✓
MIQ modules	✓	✓	✓	✓	
DIQ modules			✓	✓	✓
Wireless communication	✓	✓	✓	✓	
Redundant controller	✓	✓			
Max. number of displays	3	3	1	1	1
Cable length	3 km	3 km	250 m	250 m	250 m
Oxygen	●	●	●	●	●
pH/ORP	●	●	●	●	●
Conductivity	●	●	●	●	●
Turbidity	●	●	●	●	●
Suspended solids	●	●	●	●	●
Nitrogen	●	●	●	●	
Carbon	●	●	●	●	
SAC/UVT	●	●	●	●	
Phosphate	●	●	●	●	
Sludge level	●	●	●	●	●
	MIQ/TC 2020 3G	MIQ/MC3	DIQ/S 284	DIQ/S 282	DIQ/S 281

✓ ● yes

Systems in Detail

Module	MIQ/PS	MIQ/24V	MIQ/C6	MIQ/R6	MIQ/CR3	MIQ/IC2	MIQ/3-MOD	MIQ/3-PR	MIQ/JB	MIQ/JBR	MIQ/WL PS (SET)	MIQ/TC20203G	Terminal IQ	MIQ/MC3	MIQ/MC3-MOD	MIQ/MC3-PR	Cleaning Air Box - 230 VAC	Cleaning Air Box - 115 VAC	MIQ/CHV PLUS
Usable with System 2020	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Usable with System 282/284	■	■	■	■	■	■			■		■						■	■	■
Available IQSN connectors	3	3	2	2	2	2	2	2	4	4	3	✗	✗	2	2	2	✗	✗	2
Electrical current [W]	**	**	3.0	1.5	3.0	0.2	3.0	3.0	0.0	0.2	0.6	3.0	3.0	2.5	3.0	3.0	***	***	2.5
Module features																			
Power supply																			
100...240 V AC	■																		
24 V AC/DC		■																	
Analog outputs/relays																			
6 x 0/4...20 mA			■																
6 x relays				■															
3 x 0/4...20 mA, 3 x relays					■														
Analog inputs																			
2 x 0/4...20 mA						■													
Interfaces																			
MODBUS							■								■				
PROFIBUS								■									■		
USB							x	■	x	■		■		■	■	■			
Ethernet/LAN (Profinet, Ethernet/IP, Modbus TCP)														■	■	■			
Intra-system connectivity																			
4 available IQSN connectors									■										
4 available IQSN connectors including signal amplification for large distances										■									
Radio transmission											■								
Controller																			
Controller/Terminal (with display)												■							
Terminal (with display)													■						
Controller in std IQ module w/o display														■	■	■			
Compensation																			
Air-pressure compensation for D.O. measurement														■	■	■			
Compressed air cleaning																			
Air compressor 230 VAC																	■		
Air compressor 115 VAC																		■	
Valve for automatic cleaning																			■

** Power delivery: MIQ/PS and MIQ/24V provide 18W each

*** Integrated power supply

x USB interface only for software updates