



Tailor-made to your plant: IQ SENSOR NET

MODULAR SYSTEM 2020, EASILY EXPANDABLE IN THE FUTURE

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A Flexible System – Reliable Results

The IQ SENSOR NET is of modular design and grows with your demands.

- Large, color display with user-friendly buttons in all weather conditions
- Feature enhancements by addition of specific modules
- Low installation costs by stack-mounting without cable

Application areas and system concept

The IQ SENSOR NET is a network for analytical measurements. It is in worldwide operation since 2001, constantly evolving to meet customer needs. It is used for inlet and outlet monitoring, as well as for controlling the activated sludge process.

Due to its modular design, the system can be expanded any time by adding further modules and sensors in any order.

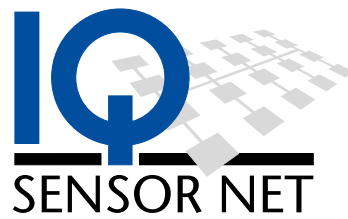
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Further advantages

- 20 sensors connectable
- Automatic sensor recognition
- Centralized power supply for entire system
- IP66 and IP67 protection (depending on module)
- Full remote access without any extra costs with IQ WEB CONNECT
- Free-of-charge software updates
- Internal data logger
- USB interface for data storage and updates by default
- Additional Terminals - either with or without Controller (Backup) function
- Up to 3 km cable length permitted
- At least two IQ SENSOR NET connections per module for sensors or modules
- Feature enhancements by addition of specific modules
- Low installation costs by stack mounting without cable

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The Construction Kit to Suit your Needs

The basic equipment

The Terminal with large display, user-friendly buttons working in all weather conditions and the power supply module



MIQ/TC 2020 3G
connectable to any module



MIQ/PS or MIQ/24V
For wide range or 24V (AC and DC) power supply

The modules

Expand the functions of your system by adding specific modules. Some examples:



MIQ/CR3
With 3 current outputs and 3 relays



MIQ/C6
With 6 current outputs

MIQ/R6
With 6 relays



MIQ/IC2
With 2 current inputs to connect any third party sensor (e.g. level sensor)



MIQ/JB
With 4 sensor connections

Sensors and parameters

All common parameters from inlet to outlet. The sensors can be connected with a universal cable to any module.



Terminal IQ

Mobile value display



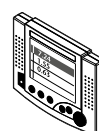
MIQ/CHV Plus

For automatic pressured air cleaning of any sensor



MIQ/WL PS

For radio transmission (e.g. at moving scraper bridges)



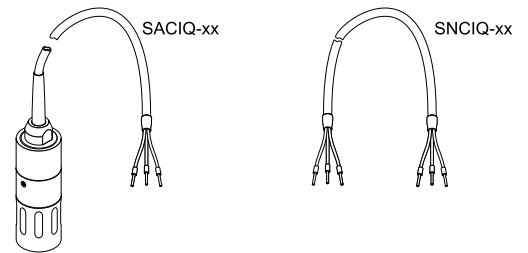
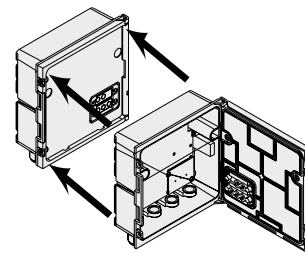
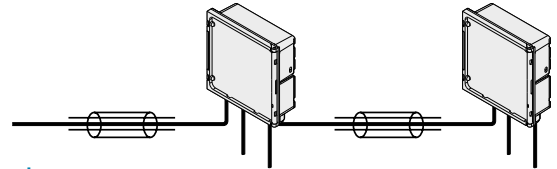
Terminal IQ

The cost-effective supplement without Controller (BackUp) function

Installation

Connect the modules via cable or by cable-free stack mounting, and connect sensors at any module.

- Module connection via SNCIQ cable
- Easy and cable-free stack-mounting thanks to universal module design
- Universal cable for sensors (SACIQ) and modules (SNCIQ)



Example 1 System 2020 3G

Configuration example	Order No.
MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensors	user selected

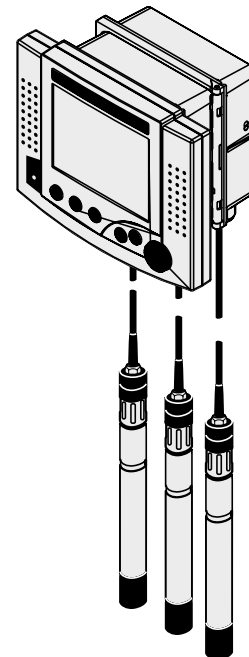
MIQ/TC 2020 3G-CR3 Starter Set

consistig of:

- MIQ/TC 2020 3G (terminal/controller)
- MIQ/CR3 (3 x mA, 3 x relays)
- MIQ/PS (power supply)

additionally:

- 3 SACIQ (sensor connection cable)
- 3 IQ sensors



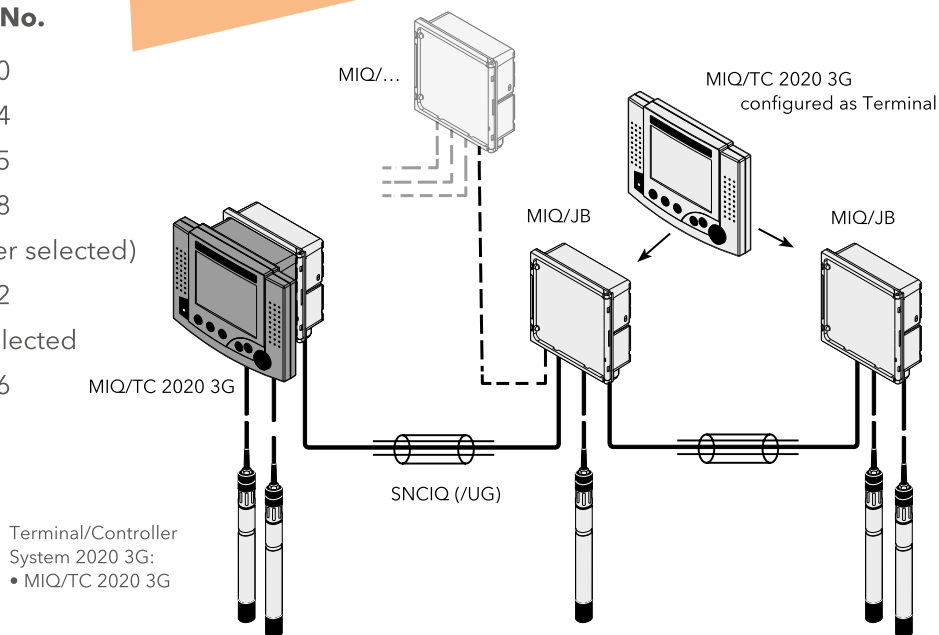
Multiparameter controller for up to 5 selectable sensors, with 3 current outputs and 3 relays

Example 2 System 2020 3G

Configuration example Order No.

MIQ/TC 2020 3G	470020
MIQ/PS	480004
MIQ/C6	480015
MIQ/JB	480008
Further modules connectable (user selected)	
SACIQ-7,0	480042
IQ sensors	user selected
SNCIQ	480046

Not restricted in topology!

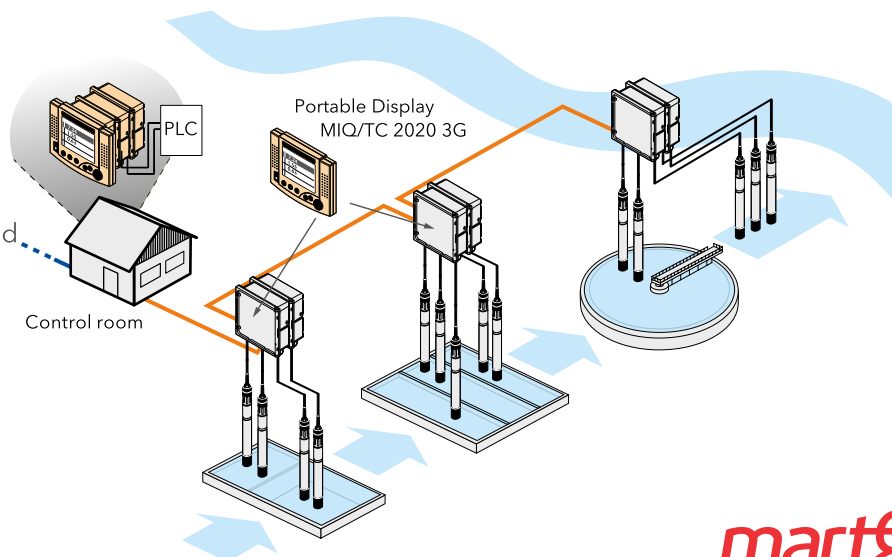


Branched network System 2020 3G for up to 20 freely selectable parameters. Example with 6 current outputs; measuring locations 2 and 3 are at a larger distance from the Terminal/Controller. Expandable with a portable Terminal MIQ/TC 2020 3G or Terminal IQ as an additional display for easy on-site calibration with or without redundant Controller function.

Example 3 System 2020 3G

Configuration example Order No.

MIQ/TC 2020 3G	470020
MIQ/PS	480004
MIQ/MC3	471020
MIQ/JB	480008
SACIQ-7,0	480042
IQ Sensors	user selected
SNCIQ	480046



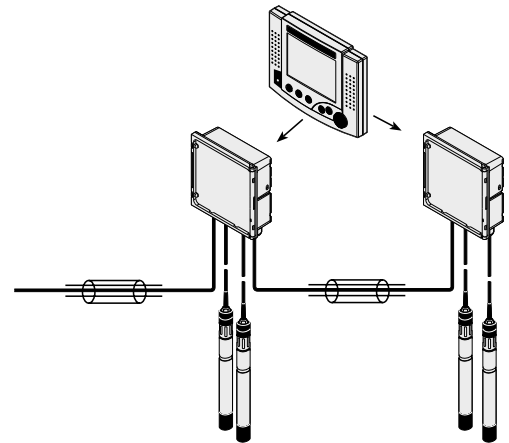
Certainly Flexible

Portable Terminal, data transfer to PLC by fieldbus, Controller (Backup) function or operation from remote - stay future-proof and flexible with the IQ SENSOR NET.

- Portable Terminal with Controller (Backup) function
- Digital interfaces and Controller (Backup) function
- Free-of-charge remote access with IQ WEB CONNECT
- Cost-effective Terminal IQ without Controller (Backup) function

Portable Terminal with Controller (Backup) function

Use a fixed terminal along with a portable one. Connect the portable terminal to any module and check the measured values right next to the sensors. In case of damage the portable terminal takes control of the system, thereby increasing the operational safety.



Digital interfaces and Controller (Backup) function

To transfer the measured values to the PLC, analog outputs as well as digital fieldbuses are provided on the appropriate MIQ/MC3 controller module. Thus, the Terminal becomes portable and increases the operational safety, taking control of the system in case of damage.



Cost-effective Terminal IQ without Controller (Backup) function

The new Terminal IQ without Controller (BackUp) function offers the most important functionalities as a cost-effective alternative. The prerequisite is an MIQ/TC 2020 3G or XT connected in the system.



Full remote access with IQ WEB CONNECT

Control your IQ SENSOR NET conveniently from a distance. The IQ WEB CONNECT allows data storage and settings at any time free of charge, without subscription, secured by password.

Just connect the IQ SENSOR NET to the internet or a local network via the integrated Ethernet interface.

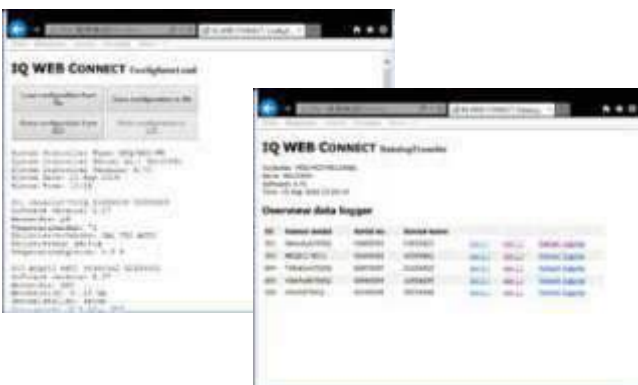
Read – Monitor all measured values at a glance



Set – Apply all changes from a distance with convenient input via keyboard



Store – Store your configuration and measured data and plot your own graphs.



IQ WEB CONNECT on the Internet

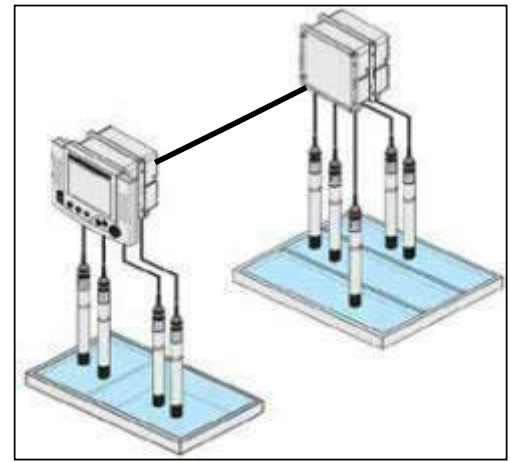
Watch our video and see for yourself:

www.wtw.com/webconnect (or scan the QR code).



Technical data

Material	Polycarbonate with 20% glass fibre
Dimensions	Terminal: 8.3 x 6.7 x 1.6 in (W x H x D); (210 x 170 x 40 mm) Modules: 5.7 x 5.7 x 2.0 in (W x H x D); (144 x 144 x 52 mm)
Protection class	Modules: IP66 and IP67, respectively Sensors: IP68
Certificates	CE, cETL, ETL
Warranty	Modules and Terminals: 3 years Sensors: 2 years
Operational conditions	Operational temperature: -4 °F ... +131 °F; (-20 °C ... +55 °C) Storage temperature: -13 °F ... +149 °F; (-25 °C ... +65 °C)



Ordering information

Model	Description	Order no.
MIQ/TC 2020 3G	Terminal/Controller for the IQ Sensor Net System 2020, portable Terminal with large color display, robust buttons and USB interface	470020
MIQ/TC 2020 3G-CR3	Ready-to-use starter set, consisting of Terminal (MIQ/TC 2020 3G), power supply module (MIQ/PS) and output module (MIQ/CR3)	470022
MIQ/TC 2020 3G-C6	Ready-to-use starter set, consisting of Terminal (MIQ/TC 2020 3G), power supply module (MIQ/PS) and output module (MIQ/C6)	470024
MIQ/TC 2020 3G-EF	Ready-to-use starter set, consisting of Terminal (MIQ/TC 2020 3G), power supply module (MIQ/PS) and Controller module (MIQ/MC3)	470026
Terminal IQ	Same as MIQ/TC 2020 3G, but without Controller (Backup) function	470021
SNCIQ ...	Connection cable, available in different lengths	480046 and 480068 ... 480072
SACIQ-...	Sensor cable, available in different lengths	480040 ... 480044
MIQ/PS	Wide range power supply module	480004
MIQ/24V	24V (AC and DC) power supply module	480006
MIQ/JB	Module with 4 sensor connections	480008
MIQ/JBR	Module with 4 sensor connections and signal amplifier for long cables	480010
MIQ/R6	Module with 6 relays	480013
MIQ/CR3	Module with 3 current outputs and 3 relays	480014
MIQ/C6	Module with 6 current outputs	480015
MIQ/IC2	Module with 2 inputs for connection of any third party sensor (e.g. level)	480016
MIQ/CHV PLUS	Module with automatic pressured air cleaning for any sensor	480018
MIQ/WL PS Set	Radio transmission module (e.g. for use at moving scraper brides)	480025

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