# IQ SENSOR NET
# Terminal IQ

EXTRA TERMINAL FOR OPERATING THE IQ SENSOR NET SYSTEMS 2020 3G OR 2020 XT

a **xylem** brand

# 1    Overview

The Terminal IQ is an extension component for the IQ Sensor Net systems 2020 3G and 2020 XT. The Terminal IQ is an additional (e.g. second or third) mobile control unit in the IQ Sensor Net system.

The Terminal IQ can be docked to and removed from all free front covers of MIQ modules as an additional mobile operating unit. Docking requires no tools and a simple maneuver by hand is sufficient.

The **terminal function** is an additional graphical user interface of the system. It is used for the following purposes:

● Display of measured values

● Setting of IQ sensors, outputs, terminal characteristics, date, time, etc.

● Carrying out of maintenance and calibration tasks

● Display of calibration data

● Display of components lists (IQ sensors and outputs)

● Display of log book entries

When the Terminal IQ is logged on to the system as a terminal, it is mobile and can be removed at any time.

Operating elements, interfaces and status LED:
see operating manual IQ Sensor Net system 2020 3G or system 2020 XT.

# 2    Scope of delivery

● Terminal IQ

● Operating manual

# 3     Safety

## 3.1     Safety information

### 3.1.1   Safety information in the operating manual

This operating manual provides important information on the safe operation of the product. Read this operating manual thoroughly and make yourself familiar with the product before putting it into operation or working with it. The operating manual must be kept in the vicinity of the product so you can always find the information you need.

Important safety instructions are highlighted in this operating manual. They are indicated by the warning symbol (triangle) in the left column. The signal word (e.g. "CAUTION") indicates the level of danger:

| ⚠️ | **WARNING**<br>**indicates a possibly dangerous situation that can lead to serious (irreversible) injury or death if the safety instruction is not followed.** |
|---|---|

| ⚠️ | **CAUTION**<br>**indicates a possibly dangerous situation that can lead to slight (reversible) injury if the safety instruction is not followed.** |
|---|---|

*NOTE*
*indicates a situation where goods might be damaged if the actions mentioned are not taken*.

### 3.1.2   Safety signs on the product

Note all labels, information signs and safety symbols on the product. A warning symbol (triangle) without text refers to safety information in this operating manual.

### 3.1.3   Further documents providing safety information

The following documents provide additional information, which you should observe for your safety when working with the measuring system:

● Operating manuals of other components of the IQ SENSOR NET system (power packs, controller, accessories)

● Safety datasheets of calibration and maintenance equipment (e.g. cleaning solutions).

### 3.2 Safe operation

#### 3.2.1 Authorized use

The intended use of the Terminal IQ consists in its use as a display device in the IQ SENSOR NET. Only the use of the terminal according to the instructions and technical specifications given in this operating manual is authorized (see chapter 4 TECHNICAL DATA). Any other use is considered unauthorized.

#### 3.2.2 Requirements for safe operation

Note the following points for safe operation:

- The product may only be operated according to the authorized use specified above.

- The product may only be operated under the environmental conditions mentioned in this operating manual.

- The product may only be supplied with power by the energy sources mentioned in this operating manual.

- The product may only be opened if this is explicitly described in this operating manual (example: connecting electrical lines to the terminal strip).

#### 3.2.3 Unauthorized use
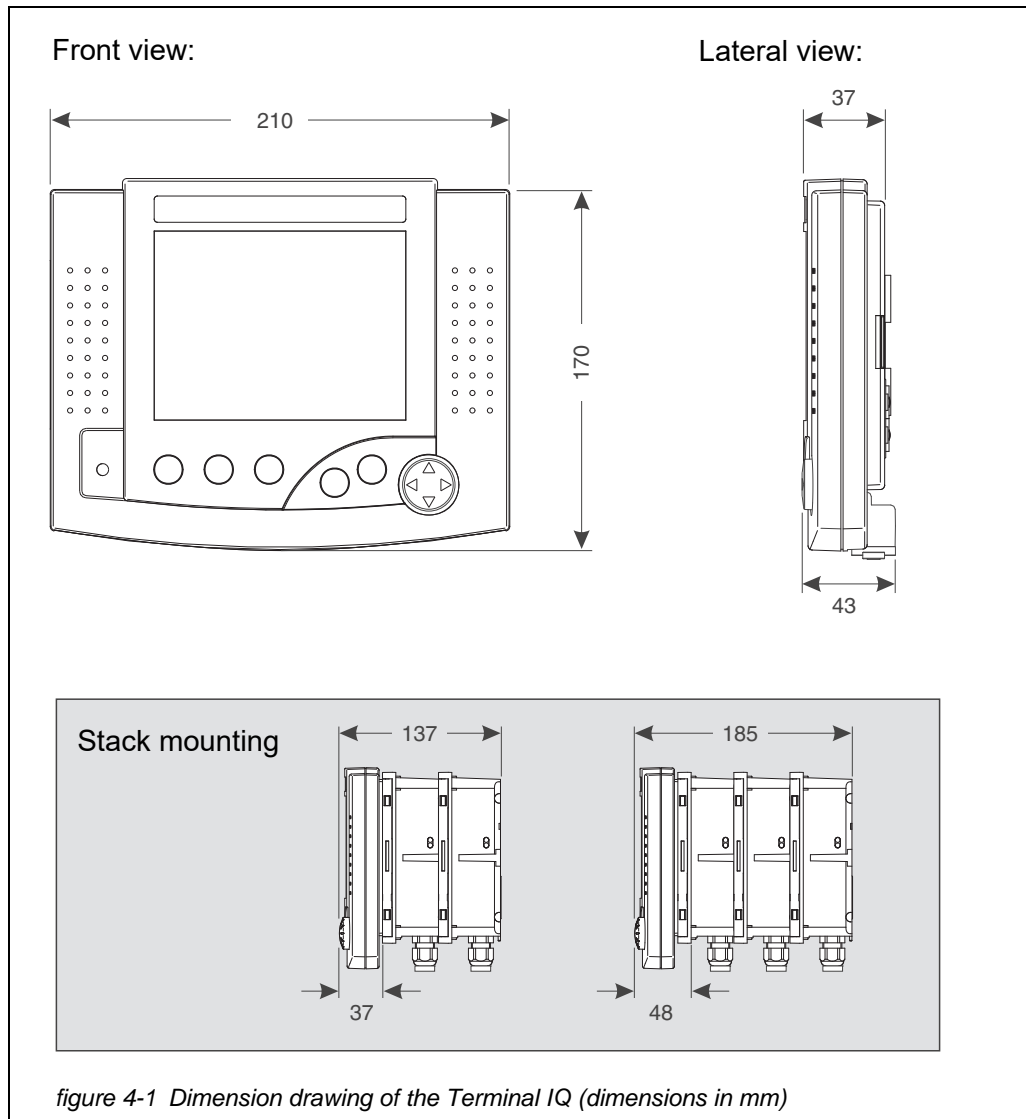
The product must not be put into operation if:

- it is visibly damaged (e.g. after being transported)

- it was stored under adverse conditions for a lengthy period of time (storing conditions, see chapter 4 TECHNICAL DATA).

### 3.3 User qualification

**Target group**   The IQ SENSOR NET system was developed for online analysis. Some maintenance activities,  e.g. changing the membrane caps in D.O. sensors, require the safe handling of chemicals. Thus, we assume that the maintenance personnel is familiar with the necessary precautions to take when dealing with chemicals as a result of their professional training and experience.

**Special user qualifications**   The following installation activities may only be performed by a qualified electrician:

- Connecting any power supply modules to the power supply line (see module operating manual).

- Connecting any external, line voltage-carrying circuits to relay contacts (see module manual of the relay output module).

# 4    Technical data

**Dimensions**

Front view:                                                          Lateral view:



Stack mounting

*figure 4-1  Dimension drawing of the Terminal IQ (dimensions in mm)*

**Mechanical structure**

| Enclosure material | ASA (Acrylonitrile Styrene Acrylesterpolymer) |
|---|---|
| Weight | Approx. 0.9 kg |
| Type of protection | IP 66 (not suitable for conduit connection) |

**Electrical data**

| Supply voltage | max. 24 VDC via the IQ SENSOR NET |
|---|---|
| Power consumption | 3.5 W |

| **USB-A interface** | Version | USB 2.0 |
|---|---|---|
| | Usage | Download of measurement data, software updates, electronic key |

> Immediately close the USB connection with the protective cover when you have removed the USB device.
> When the USB connection is open, there is a danger of corrosion.

# 5 Operation

**Prerequisite**      The following prerequisites apply for the operation of a Terminal IQ in an IQ SENSOR NET system 2020 (3G, XT):

● IQ SENSOR NET system 2020 3G or 2020 XT with the following components:

– Terminal/Controller MIQ/TC 2020 (3G, XT)

– Controller MIQ/MC3 or MIQ/MC2
(if all terminal/controllers MIQ/TC 2020 (3G, XT) in the system are configured as a terminal)

● At least software version 3.87
for the active controller in the IQ SENSOR NET system

> You can show the software version of the controller on the display and, if necessary, carry out a software update (see operating manual of the IQ SENSOR NET system 2020 3G or system 2020 XT).

> The Terminal IQ cannot be operated if
>
> ● No terminal/controller MIQ/TC 2020 (3G, XT) is installed in the IQ SENSOR NET system, or
>
> ● the maximum number of 3 terminal/controllers MIQ/TC 2020 (3G, XT) is already installed in the IQ SENSOR NET system.

**Docking the IQ terminal**      The Terminal IQ is, like other terminal components, fixed on the lid of a free MIQ module with the aid of a quick-release locking mechanism (see operating manual of the IQ SENSOR NET system 2020 3G or system 2020 XT).

**Operation**      See operating manual of the IQ SENSOR NET system 2020 3G or 2020 XT. The Terminal IQ has no controller (backup) function.

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