



xylem IQ SensorNet MIQ/IC2 Module User Guide

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Quick Start Guide
YSI Municipal Water · XA00166

IQ SensorNet MIQ/IC2 Module
QUICK START GUIDE

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Overview

The MIQ/IC2 current input module provides two 0/4 – 20 mA current inputs for IQ SeniorNet and thus enables to the connection of external sensors via their current output. Measured values of the external sensors can be displayed, recorded, and processed like the measured values from IQ SeniorNet.

Examples:

- Connecting flow meters to IQ SeniorNet
- Connecting level meters to IQ SeniorNet
- Connecting analyzers to IQ SeniorNet
- Connecting pressure sensors to IQ SeniorNet

Scope of Delivery:

- MIQ/IC2 module
- 4 x cable glands (clamping range 4.5-10 mm) with seals and blind plugs
- 4 x ISO blind nuts M4 with suitable cheese-head screws and plain washers
- 2 x countersunk screws M3x6 to close the module lid (+ 2 replacement screws)
- 1 x contact base with fixing screws

Materials Required

To set up the MIQ/IC2 module you will need the following tools:

- Cable stripping knife
- Wire stripper
- Phillips screwdriver
- Small screw driver
- Cable



Figure 1: MIQ IC2 Module

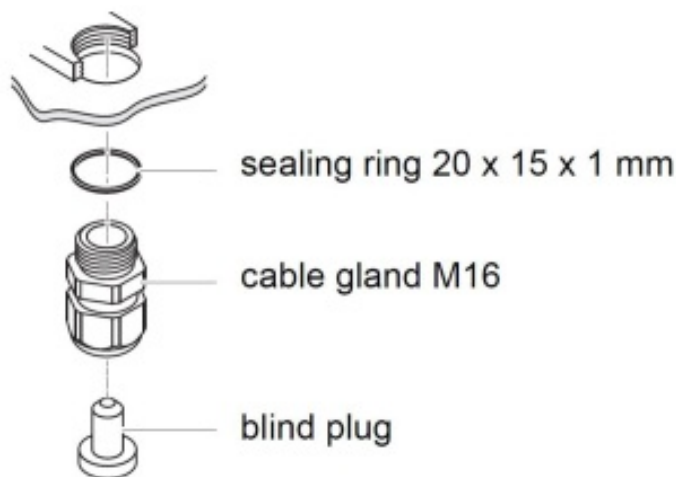


Warning

This document is not intended to replace the MIQ/IC2 module operation manual. Please use the operating manual as a reference during the following functions; installation, operation, cleaning, maintenance, and troubleshooting.

Step By Step Instructions

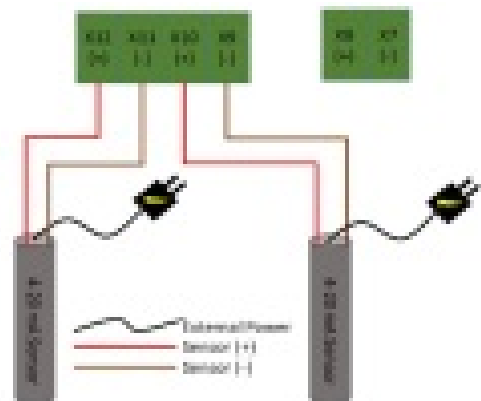
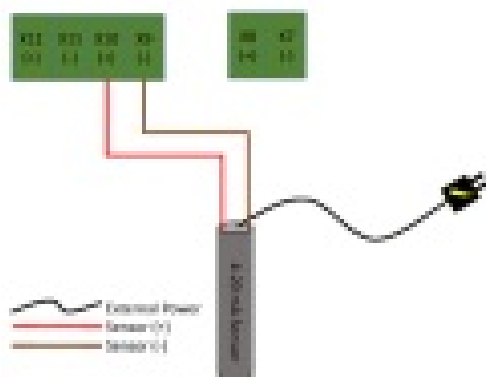
1. Install all cable glands to the bottom of the MIQ/IC2 module as shown below



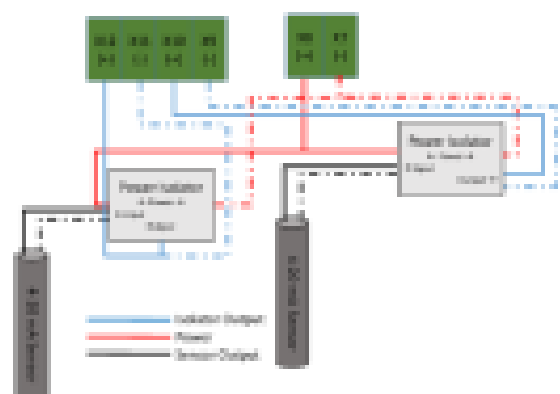
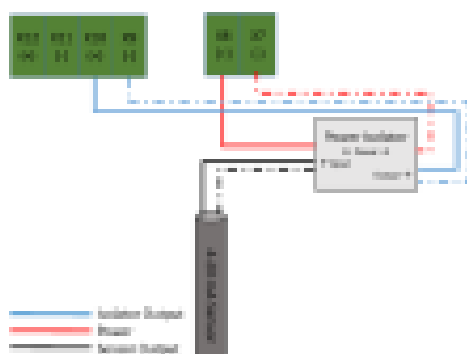
2. Connect the cable to the terminal strip

1. Open the MIQ/IC2 module.
2. Open the cable gland fitting under the required input. Keep the blind plug fitting for later. modifications, if necessary.
3. Loosen the coupling ring.
4. Feed the cable through the cable gland in the module housing.
5. Open the terminal strip with a small screwdriver.
6. Connect the cable to the terminal strip with a small screwdriver. Make sure to connect the first device to "REC 1".
7. Tighten the coupling ring to secure the cable in place.
8. Close the module.

3. Connect the cable to the device or an isolator.



Direct connection without powering the device: The current outputs of external measuring systems can be directly connected to the current inputs of the MIQ/IC2 module. If the connection data of the external meter is suitable.



Direct connection with powering the device: The – wire of the current outputs of external measuring systems need to be directly connected to the current inputs (X10) of the MIQ/IC2 module. The + wire of the

current outputs of external measuring systems needs to be directly connected to the + 24V power supply (X8) of the MIQ/ IC2 module. A jumper cable needs to be run from the – current inputs (X9) to the – 24V power supply (X7) of the MIQ/IC2 to complete the loop.

4. **Apply power to the device.**

Keep in mind the following information when setting up the MIQ/IC2 Module and third-party devices.

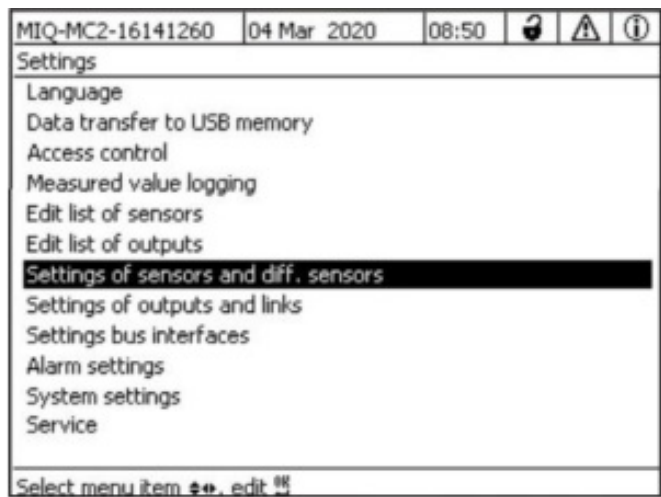
IQSN Power Consumption: The power consumption is 0.2 watts plus 2.2 watts per connected power supply/isolator.

Loop Powered Devices: The 24V power supply in the MIQ/IC2 is rated at 240mA. If powering two devices make sure the current draw of the entire 24V loop (the devices and isolators) doesn't exceed 240mA.



Figure 1: Press the “S” button on the IQ SeniorNet controller

5. **Scroll down to the “Setting of sensors and diff. sensors” option and press “OK”.**



6. **Select the “Measuring range” column and press “OK”.**

MIQ-MC2-16141260		04 Mar 2020	08 51			
Settings of sensors and diff. sensors						
&	No.	Sensor name	Measuring range			
—	503	13151098	0.00..20.00			
Select , edit sensor settings						

7. Press “Continue”

MIQ-MC2-16141260		04 Mar 2020	08 52			
Settings of sensors and diff. sensors						
&	No.	Sensor name	Measuring range			
---	503	13151098	0.00..20.00			
<div>Attention! If the measuring mode or measuring range is changed, links of the sensor are erased.</div> <div><div>Continue</div><div>Cancel</div></div>						
Select edit sensor settings						

8. Customize the following settings to the appropriate values

MIQ-MC2-16141260	04 Mar 2020	09 04			
503 MIQIC2 REC1 13151098					
Measuring mode	REC				
Measuring range	4..20 mA				
Decimal places	2 (.00)				
Disp. value (0/4 mA)	0.00				
Disp. value (20 mA)	5.00				
Disp. unit	mg/L				
Measured parameter	Cl2				
Error detection	>= Error threshold				
Error threshold	20.5 mA				
MIQ/IC2 REC2	inactive				
Save and quit					
Quit					
Select setting					

9. Measuring range

MIQ-MC2-16141260	04 Mar 2020	08:54			
S03 MIQIC2 REC1 13151098					
Measuring mode			REC		
Measuring range			4..20 mA		
Decimal places			2 (.00)		
Disp. val			0.00		
Disp. val			20.00		
Disp. unit				
Measured parameter				
Error detection			>= Error threshold		
Error threshold			20.5 mA		
MIQ/IC2 REC2			inactive		
Save and quit					
Quit					
Adjust setting , confirm					

10. Decimal places

MIQ-MC2-16141260	04 Mar 2020	08:55			
S03 MIQIC2 REC1 13151098					
Measuring mode			REC		
Measuring range			4..20 mA		
Decimal places			2 (.00)		
Disp. val			0.00		
Disp. val			20.00		
Disp. unit				
Measured parameter				
Error detection			>= Error threshold		
Error threshold			20.5 mA		
MIQ/IC2 REC2			inactive		
Save and quit					
Quit					
Adjust setting , confirm					

11. Display value (0/4mA)

MIQ-MC2-16141260	04 Mar 2020	08:58			
S03 MIQIC2 REC1 13151098					
Measuring mode			REC		
Measuring range			4..20 mA		
Decimal places			2 (.00)		
Disp. val			0.00		
Disp. val			20.00		
Disp. unit				
Measured parameter				
Error detection			>= Error threshold		
Error threshold			20.5 mA		
MIQ/IC2 REC2			inactive		
Save and quit					
Quit					
Adjust setting , confirm					

12. Display value (20 mA)

MIQ-MC2-16141260	04 Mar 2020	08:57			
S03 MIQIC2 REC1 13151098					
Measuring mode			REC		
Measuring range			4..20 mA		
Decimal places			2 (.00)		
Disp. val			Disp. value (0/4 mA) 0.00		
Disp. val			0.00 20.00		
Disp. unit			1234567890.-		
Measured parameter				
Error detection			>= Error threshold		
Error threshold			20.5 mA		
MIQ/IC2 REC2			inactive		
Save and quit					
Quit					
Adjust setting , confirm					

13. Display unit

MIQ-MC2-16141260	04 Mar 2020	08 59			
S03 MIQIC2 REC1 13151098					
Measuring mode			REC		
Measuring range			4..20 mA		
Decimal places			2 (.00)		
Disp. val			Disp. unit 0.00		
Disp. val			mg/L 5.00		
Disp. unit				
Measure			abcdefghijklmnopqrstuvwxyz		
Error det			ABCDEFGHIJKLMNOPQRSTUVWXYZ hreshold		
Error thr			0123456789 _äöüßÄÖÜ 20.5 mA		
MIQ/IC2			µ%&@&/\()+-=><.!°\$# inactive		
Save and quit					
Quit					
Adjust setting , confirm					

14. Measured parameter

MIQ-MC2-16141260	04 Mar 2020	09 01			
S03 MIQIC2 REC1 13151098					
Measuring mode			REC		
Measuring range			4..20 mA		
Decimal places			2 (.00)		
Disp. val			Measured parameter 0.00		
Disp. val			Cl2_ 5.00		
Disp. unit			mg/L		
Measure			abcdefghijklmnopqrstuvwxyz		
Error det			ABCDEFGHIJKLMNOPQRSTUVWXYZ hreshold		
Error thr			0123456789 _äöüßÄÖÜ 20.5 mA		
MIQ/IC2			µ%&@&/\()+-=><.!°\$# inactive		
Save and quit					
Quit					
Adjust setting , confirm					

15. Error detection

MIQ-MC2-16141260	04 Mar 2020	09 02	🔒	⚠️	ℹ️
S03 MIQIC2 REC1 13151098					
Measuring mode	REC				
Measuring range	4..20 mA				
Decimal places	2 (.00)				
Disp. val	Error detection	0.00			
Disp. val	>= Error threshold	5.00			
Disp. unit	<= Error threshold	mg/L			
Measured parameter	Cl2				
Error detection	>= Error threshold				
Error threshold	20.5 mA				
MIQ/IC2 REC2	inactive				
Save and quit					
Quit					
Adjust setting ⬅➡, confirm ⏹					

16. Error threshold

MIQ-MC2-16141260	04 Mar 2020	09:02	🔒	⚠️	ℹ️
S03 MIQIC2 REC1 13151098					
Measuring mode	REC				
Measuring range	4..20 mA				
Decimal places	2 (.00)				
Disp. val	Error threshold	0.00			
Disp. val	20.5	5.00			
Disp. unit	mg/L	234567890,-			
Measured parameter	Cl2				
Error detection	>= Error threshold				
Error threshold	20.5 mA				
MIQ/IC2 REC2	inactive				
Save and quit					
Quit					
Adjust setting ⬅➡, confirm ⏹					





17. MIQ/IC2 REC 2

If only one device is connected to MIQ/IC2 module = Inactive

If two devices are connected to the MIQ/IC2 module = Active

MIQ-MC2-16141260	04 Mar 2020	09 03	🔒	⚠️	ℹ️
S03 MIQIC2 REC1 13151098					
Measuring mode	REC				
Measuring range	4..20 mA				
Decimal places	2 (.00)				
Disp. val	MIQ/IC2 REC2	0.00			
Disp. val	inactive	5.00			
Disp. unit	active	mg/L			
Measured parameter	Cl2				
Error detection	>= Error threshold				
Error threshold	20.5 mA				
MIQ/IC2 REC2	inactive				
Save and quit					
Quit					
Adjust setting ⬅➡, confirm ⏹					

18. Press "Save and quit"

MIQ-MC2-16141260	04 Mar 2020	09 04			
S03 MIQIC2 REC1 13151098					
Measuring mode	REC				
Measuring range	4..20 mA				
Decimal places	2 (.00)				
Disp. value (0/4 mA)	0.00				
Disp. value (20 mA)	5.00				
Disp. unit	mg/L				
Measured parameter	Cl2				
Error detection	>= Error threshold				
Error threshold	20.5 mA				
MIQ/IC2 REC2	inactive				
Save and quit					
Quit					
Select setting 					



YSI, a Xylem brand
1725 Brannum Lane
Yellow Springs, OH 45387

☎️ +1.937.767.7241

✉️ info@ysi.com

🌐 YSI.com/IQSN

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Documents / Resources

	<p>xylem IQ SensorNet MIQ/IC2 Module [pdf] User Guide</p> <p>IQ SensorNet MIQ IC2 Module, XA00166, IQ SensorNet, MIQ IC2 Module</p>
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