



Changing the Analogue Signal Range (1/2)

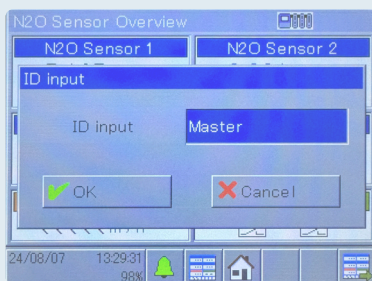
When switching from a normal range sensor to a medium or high range sensor, the signal range must be adjusted. The N₂O Wastewater Controller has two analog channels with a default range from 0 to 2.0 mg N₂O-N/L. When using Medium or High range sensor heads, the channels should be rescaled to e.g. 0 to 10.0 mg N₂O-N/L. It is a 2-step process where **the output range** as well as **the logging range** need to be changed separately.

IMPORTANT:

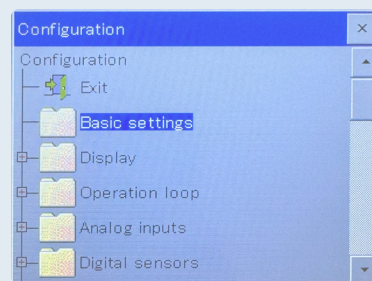
- Make sure the same scaling is used in the receiving data handling system.
- If a firmware update is performed, the controller will go back to default settings and this step must be repeated.

Step-by-step guide to **output range** rescaling:

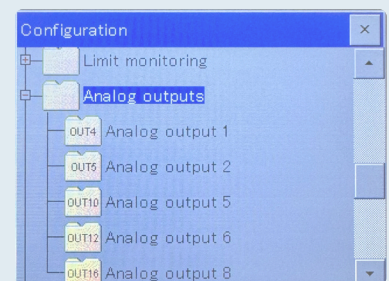
1. Enter the menu system in the lower left corner and login as MASTER with pin code 9200



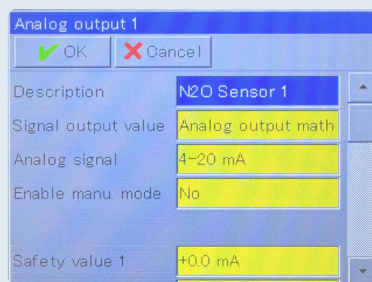
2. Locate the submenu called Configuration and enter this.



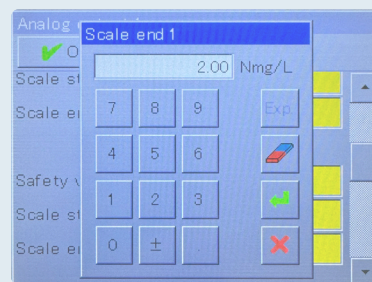
3. Locate the submenu called Analog outputs and enter this.



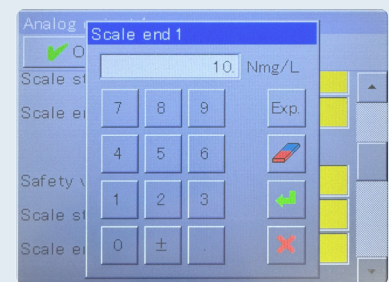
4. Find the corresponding Analog output channel 1 or 2 for sensor 1 or 2, respectively.



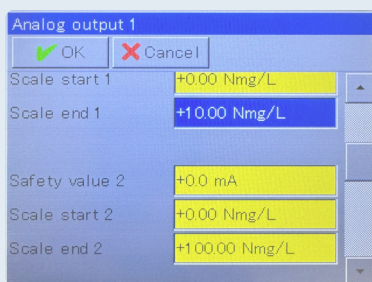
5. Find the value **Scale end 1** and tab the yellow window. An input window will popup.



6. Enter the new max scale range that 20 mA corresponds to. 10 mg N₂O-N/L is used here.



7. Finally, press the OK button and exit the menu.



8. **REMEMBER** to change the scaling in the SCADA system accordingly.

Continue to page 2 for Step-by-step guide to **logging range** rescaling →

Changing the Analogue Signal Range (2/2)

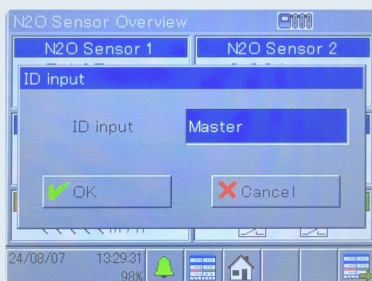
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IMPORTANT:

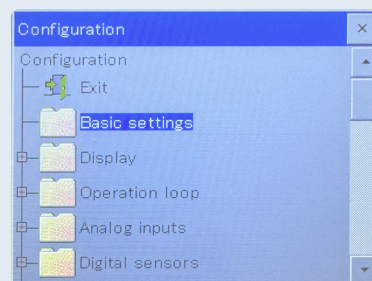
Please make sure, that you have done the Step-by-step guide to **output range** rescaling, before proceeding with **logging range** rescaling.

Step-by-step guide to **logging range** rescaling:

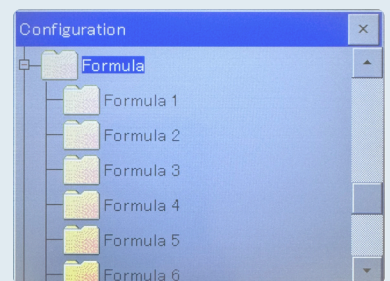
1. Enter the menu system in the lower left corner and login as MASTER with pin code 9200



2. Locate the submenu called Configuration and enter this.



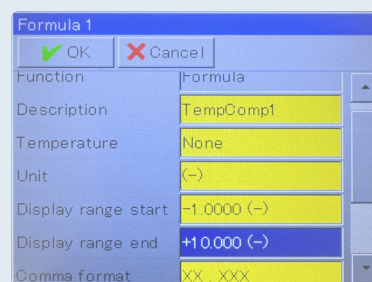
3. Find the Formula submenu and go to Formula 1 for sensor 1 or Formula 2 for sensor 2



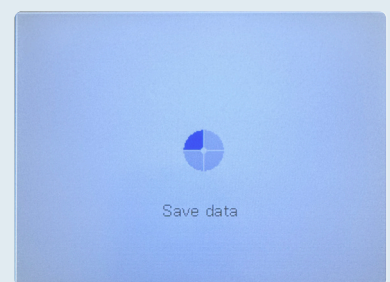
4. CHANGE the Display range end from the default 2.0 to e.g. 10.0



5. Display range start can be set to 0, or -1 if negative values should be visible



6. Close the menu to save the rescaling



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