MQS4004/N/0411

Alarm 1 is designed to monitor the humidity value.  The specific humidity value and alarm set points can be programmed via the display.

Step 17. Enter Alarm 1 Enable/Disable Submenu
Press 

Step 18. Enable Alarm 1 Submenu
If flashing 
, press 
 until 
 is displayed, then press 
 to store and go to next menu item.

Step 19. Select the Deviation Control Type Submenu
Press 
 If flashing 
 Deviation Display is pressed, otherwise press 
 until flashing 
 is shown. Now press 
 to store and go to next menu item.

Step 20. Select the Latched Type Submenu
Press 
 If flashing 
 Unlatched is displayed, otherwise press 
 until 
 is displayed. Press 
 to store and advance to next menu item.

Step 21. Select the Normally Open Type of Contact Submenu
Press 
 If flashing 
 Normally Open is displayed, otherwise press 
 until 
 is displayed. Press 
 to store and advance to next menu item.

Step 22. Select the Above Type of Active Submenu
Press 
 If flashing 
 Above is displayed, press otherwise press 
 until 
 is displayed. Press 
 to store and advance to next menu item.

Step 23. Enable Alarm 1 at Power On
Press 
 If flashing 
 Above is displayed, otherwise press 
 until 
 is displayed. Press 
 to store and advance to next menu item.

Step 24. Enter Alarm 1 High Submenu
Press 
 twice to skip 
 Alarm Low value. 
 is for 
 above 
 for above.

Step 25. Set the Alarm 1 High Value
Press 
 Press 
 until the display shows 
 Press 
 to save.

Step 26. Enter the Alarm 2 Menu
The display will show 
 The top menu for Alarm 2
Repeat steps from 17 to 23 to set for Alarm 2 the same conditions as for Alarm 1.

Step 27. Skip the Loop Break Time Menu
Press 
 to go to the 
 Output 1 Menu item.

Step 28. Configuration of the Output 1 Menu

Set Alarm 1 Disabled (Step 16) to be able to Enable Output 1.

Configure Out 1 as 

Press 
 Press 
 Press 
 Press 
 Please refer to the operator’s manual if needed. Press 
 to save and go to the next menu item.

Step 29. Configuration of Display Color Selection
Press 
 until the display 
 appears on the Display. Configure 
 or 
 Red, green, and amber programmable colors for setpoint and temperature units.

For color change on Setpoints refer to Owners Manual Section 2.

SPECIFICATION


to get to

Step 2. Enter the Setpoint 1 Value Submenu
Press 
 Press 
 Step 3. Enter the Setpoint 2 Value
Set the Setpoint 1 to 10 degree higher than Process value 
 Press 
 Press 
 Step 4. Change the Setpoint 1 Value
Press 
 until desired value is displayed.

Step 5. Store the Setpoint 1 Value
Press 
 until desired value is displayed.

Step 6. Store the Setpoint 2 Value
Repeat steps 3 and 4. Set the Setpoint 2 to 5 degree higher than Process value 
 Press 
 Press 
 Step 7. Configure the Display Menu
Press 
 to enter Configuring Menu.

Step 8. Enter the submenu items of Config Menu
Press 
 to display 
 Sensor submenu. Sensor selection for Auto/Log, Long On/Off and Soak is for temperature and 
 is for humidity.

Step 9. Enter the submenu items of Config Menu
Press 
 to display Temp Unit submenu:

Step 10. Scroll thru selection for Temp Unit submenu
Press 
 to scroll through the available selections of the Temperature Unit of your choice: 
 or 

Step 11. Store the Temperature Unit
Press 
, display momentarily shows 
 The Unit has been stored and the instrument will go automatically to the next menu item.

Step 12. Enter the Filter Constant Submenu
Display shows 
 Filter Constant Submenu.

Step 13. Display the Filter Constant Value Submenu
Press 
 to display the flashing, previously selected Filter Constant.

Step 14. Scroll through available Filter Constants
Press 
 to scroll through available Filter Constants.

Step 15. Store the Filter Constant
Press 
 momentarily to store 
 Filter Constant and the instrument will automatically go to the next menu item.

Step 16. Enter the Alarm Menu
The display will show 
 The top menu for Alarm 1. In the following steps we are going to enable Alarm 1, Deactivation, Unlatch, Normally Open, Active Above. Enable at power-on and +2°F High Alarm i.e. Previous Value > Setpoint Value +2°F will activate Alarm 1.

If Analog Output Option is installed and enabled, the controller will skip Alarm 1 Menu item to Analog Output.

Alarm must be DISABLED if Ramp is ENABLED.
Alarm 1 will only work for Humidity, not Temperature.

MQS4004/N/0411

Alarm 1 is designed to monitor the humidity value around Setpoint 1 and Alarm 2 is designed to monitor the temperature value around Setpoint 2.
SAFETY CONSIDERATION

This device is marked with the international Caution symbol.

The instrument is a panel mount device protected in accordance with EN61010-1:2001. Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must be compliant to IEC 947-1 and 947-3.

SAFETY:
- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.

EMC:
- Whenever EMC is an issue, always use shielded cables.
- Never run signal and power wires in the same conduit.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

MOUNTING
Panel Mounting Instruction:
- Using the dimensions from the panel cutout shown in exploded views, cut an opening in the panel. 45mm x 651.00 square with R 1.5, 4 places (1.772" x 23.4004" square with R 0.06", 4 places)
- Insert the unit into the opening from the front of the panel, Panel thickness: 6.4mm (0.25") max / 0.8mm (0.03") min.
- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.

WARNING: Do not connect ac power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!

### Description of Front Panel

**CONFIGURATION**

The instrument has two different modes of operation. Run Mode: used to display Temperature and Relative Humidity. Temperature Value and Relative Humidity Menu Configuration Mode: used to navigate through the menu options and configure the controller.

**Relative Humidity Upper Display**
- Temperature Lower Display

**Flow Chart**

It is required that you put the controller in Standby Mode for any configuration other than Setpoints and Alarms.

**Button Function in Configuration Mode**
- To enter the Menu, the user must first press **Menu**.
- Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing **Menu**.
- While a parameter is being modified, press **Menu** to escape without saving the parameter.
- Press the up **(UP)** button to scroll through ‘flashing’ selections. When a numerical value is displayed press this key to increase a value of a parameter that is currently being modified.
- Pressing the **(UP)** button for approximately 3 seconds will speed up the rate at which the set point value increments.
- In the Run Mode, pressing the **(UP)** button changes display from RH readings to Temperature readings.
- Press the down **(DOWN)** button to go back to a previous Top Level Menu item.
- Press this button twice to reset the controller to the Run Mode.
- Whenever a numerical value is flashing (except set point value) press **(DOWN)** to scroll digit from left to right. einmal erlaubt wird, den spezifischen Wert für das analoge Signal zu definieren. Es können jedes zwei oder sechs mehrere Analog Eingänge deaktiviert werden.

**Configuration Flow Chart**

It is required that you put the controller in Standby Mode for any configuration other than Setpoints and Alarms.

**Button Function in Configuration Mode**
- To enter the Menu, the user must first press **Menu**.
- Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing **Menu**.
- While a parameter is being modified, press **Menu** to escape without saving the parameter.
- Press the up **(UP)** button to scroll through ‘flashing’ selections. When a numerical value is displayed press this key to increase a value of a parameter that is currently being modified.
- Pressing the **(UP)** button for approximately 3 seconds will speed up the rate at which the set point value increments.
- In the Run Mode, pressing the **(UP)** button changes display from RH readings to Temperature readings.
- Press the down **(DOWN)** button to go back to a previous Top Level Menu item.
- Press this button twice to reset the controller to the Run Mode.
- Whenever a numerical value is flashing (except set point value) press **(DOWN)** to scroll digit from left to right allowing the user to select the desired digit to modify. When a set point button is displayed press **(DOWN)** to decrease value of a set point that is currently being modified. Pressing the **(UP)** button for approximately 3 seconds will speed up the rate at which the set point value is decremented.
- In the Run Mode, pressing the **(UP)** button changes from RH readings to Temperature readings.
- Press **Enter** to store a submenù selection or after entering a value the display will flash a confirmation message to confirm your selection.
- In the Run Mode, pressing twice to enable Standby Mode with flashing **Standby**.

**Underline denotes factory default setup**