

HUMIDITY METER



MODEL: HMB - 1RH
 CODE: 18B1
 WEIGHT : 180 gr
 (72x86x60) mm
 IP 30



Introduction

Shiva Amvaj Humidity Meter is a suitable instrument for controlling ambient humidity. Based on the selected mode, the

Features

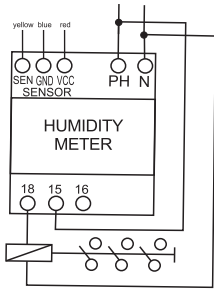
- Fully digital system with humidity display
- Equipped with two indicators
 - Fault: Cutting off the sensor
 - REL: Connecting the relay
- Capabilities
 - Relative humidity, 1% accuracy
 - Separate adjustment of humidity and Relay
 - ON/OFF Functions
 - Sensor cutoff detection
 - Dual humidification/dehumidification (DEC/INC)
 - Calibration with respect to the desired reference

Technical Specifications

- Supply Voltage/Frequency: 180-250 VAC / 50-60 Hz
- Measuring Range: 0 to 100% (RH)
- Sensor Model: AM2301 (supplied with the device)
- Time Delay
 - Connection: 1-60 s
 - Disconnection: 1-30 s
- Operation Range
 - Temperature: -20°C to +65°C
 - Humidity: 70%
- Output: 5A Relay

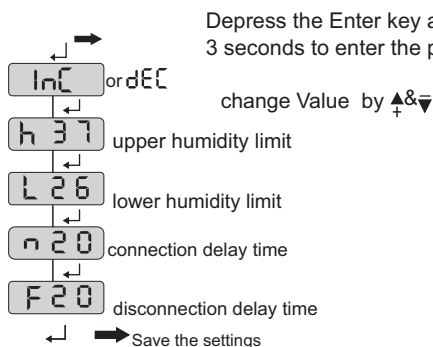
Installation

Mount the device onto the rail inside the panel or use the rail inside the box to install the device at the desired level. Consult the wiring drawing to connect the device and the sensor to the mains using the correct colors (red cable to the VCC terminal, blue cable to the ground - GND - terminal, and yellow cable to the SEN terminal). Then, program the instrument in accordance with the Settings Manual.



Note1: Avoid direct connection of capacitive loads, switching loads, or LED drivers to the device due to the high start-up currents required for these loads. Use a suitable external relay or contactor in such cases.

Upon connecting the device to the mains, the ambient humidity of the place where the sensor is mounted would be shown on the display. To program the humidity meter, follow the steps below



- The blinking numbers on the display can be changed via the Up and Down keys. Save the settings at each step by
- In the INC mode, the relay is connected if humidity drops below the L limit. The relay is switched off if humidity exceeds the H limit.
- In the DEC mode, the relay is cut off if humidity drops below L and reconnected if humidity exceeds H.
- the relay connection delay time (between 1 and 60 seconds).
- F :the relay cut off delay time (between 1 and 30 seconds).

Main Settings

To change the upper and lower humidity limits, simultaneously depress the Up and Down keys and hold them down for one second. The upper limit is set via the U parameter (between 1 and 90), and the lower limit via the L parameter (between 0 and 0.1). Use the Up and Down keys to change the O and d values. Press Enter to confirm/save the set values at each step.

Note: If the humidity displayed by the device is different from your reference humidity, perform the following setting steps to calibrate the humidity meter. Calibration would not be required under normal conditions.

Calibration by User

- 1- Simultaneously press Enter and Down keys and hold them down for 3 seconds until the C3C0 is displayed on the screen.
- 2- Use the Up and Down keys to change humidity to $\pm 9\%$ RH.
- 3- Press Enter to save the new settings.
- 4- Check the humidity display to ensure the desired changes have been made.



Respecting the customer is our duty

- 3 year no question asked guarantee under these conditions;
- 1-at most it should be within 3 years from the date printed on the label of the product
 - 2-the label on the product should be safe and sound

Shiva Amvaj products in accordance with international standards and with a 3 year no question asked guarantee are presented



customer support :(+98)3135723690-1
 sale:(+98)3135723444-5 fax : (+98)3135723400

Email: info@shivaamvaj.com

Shiva Amvaj Company is also presenting services in cyberspace

Shiva Amvaj number: 0098 913 403 43 51