



**THC-303 is a programmable temperature and humidity digital controller with dual check for both temperature and relative humidity.**

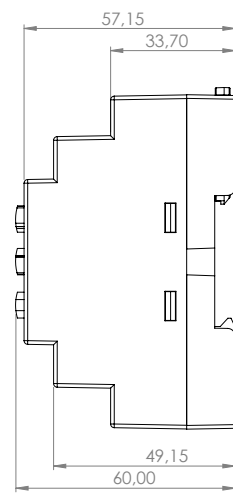
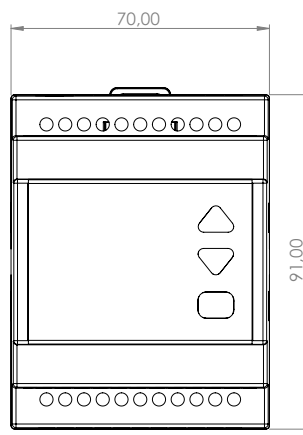
## Overview

THC-303 is designed to control temperature and relative humidity. The device is equipped with three external sensor inputs, four contact outputs and two digital inputs for setting threshold values. The operation settings of the contacts can be selected through the programs. It is suitable to use in different operation situations. LED indicators and 7-Segment Display are placed on the top of the device to show auxiliary voltage, temperature, relative humidity and alarm status. Owing to MODBUS helps to have a data from the device and possible it is possible for programming.

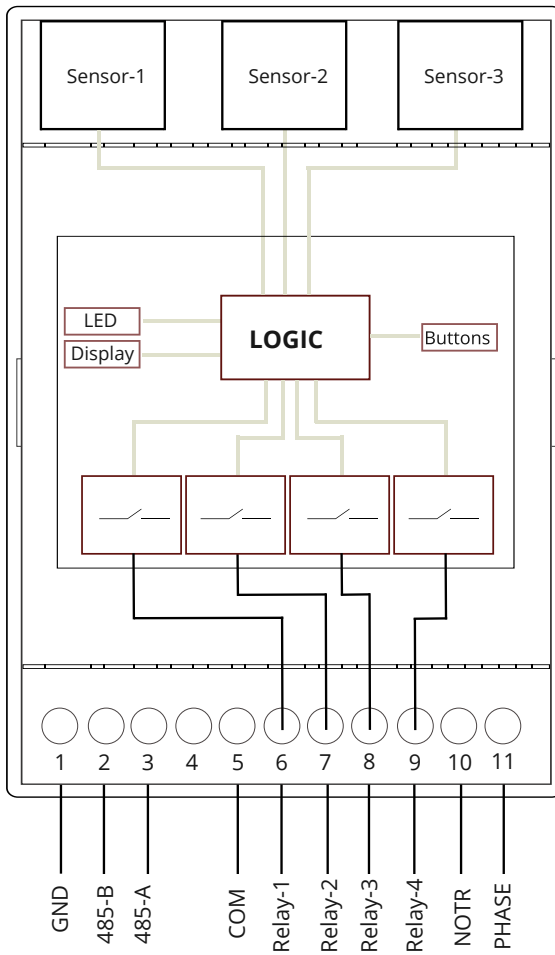
## Technical Parameters

<b>Auxiliary Power</b> 100-240VAC 50/60 Hz	<b>Response Time</b> 15s
<b>Power Consumption</b> 3W	<b>Operating Temperature / Humidity</b> -25°C – +70°C / 10-90%RH (No Condensing)
<b>Power Frequency Withstand Voltage</b> 2kV / 1s	<b>Storage Temperature / Humidity</b> -40°C – +80°C / 5-95%RH
<b>Switching Capacity</b> 5A 250VAC / 10A 120VAC	<b>Hysteresis</b> Ayarlanabilir
<b>Setting Method</b> Digital	<b>Tolerance</b> ±%2 RH, ±0.2°C
<b>Data Port</b> RS-485	<b>Protection Class</b> IP20
<b>Setting Range</b> 0-60°C 10-80%RH	<b>Dimensions</b> 70 x 91 x 60mm
<b>Default Set Values</b> 30°C / 60 %RH *	<b>Installation</b> 35mm DIN rail EN50022
<b>Weight</b> 200gr	<b>Connection Screw</b> Screw, 15 to 12 (AWG) 1.65 to 3.31 (mm <sup>2</sup> ) wire

## Technical Drawings



## Connection Diagram



## Hysteresis

A hysteresis is defined for both temperature and relative humidity settings to prevent the relay state from changing frequently with small fluctuations. The hysteresis value can be adjusted remotely via the device or via MODBUS.

## Programming

The device can be easily programmed via the buttons and 7-Segment Display on the device. There are many different combinations for relay outputs. It is installed by selecting from the list in the user manual. In addition, all these settings can be made on the computer via MODBUS.