
ON/OFF TEMPERATURE AND HUMIDITY CONTROLLER

General Specification:

- μ P based, temperature and humidity controller
- Measuring scale: $-19.9^{\circ}\text{C} \dots +80.0^{\circ}\text{C}$, 5 .. 95 %RH
- ON-OFF control form
- Separate outputs for temperature and humidity control
- Selectable heating and cooling function
- Selectable humidity increase/decrease function
- Upper limit for Temperature and Humidity SET settings
- Lower limit for Temperature and Humidity SET settings
- Adjustable separate hysteresis for Temperature and Humidity settings
- Adjustable delay timer before OUT ON for cooling function
- Separate adjustable "Offset" for Temperature and Humidity measurements
- Selectable parameter display feature
- Password protection
- High accuracy
- EEPROM memory to store settings
- Easy connection with plug-in connectors

Warning:

- Use shielded and twisted signal cables and connect shield to ground on device side. Keep all signal cables away from contactors, devices/cables emitting electrical noise, power cables.
- Keep device away from contactors, devices/cables emitting electrical noise, power cables. Take precautions against environmental conditions like humidity, vibration, pollution and high/low temperature during installation.
- Use fuse (F250mA 250VAC) on mains/supply input of the device. Use appropriate cables for mains connections. Apply safety regulations during installation.
- Please POWER OFF device before making any connection to the Temperature/Humidity sensor. Pay attention to the color codes of the sensor cable given at the device label. Wrong connection may result permanent sensor failure.

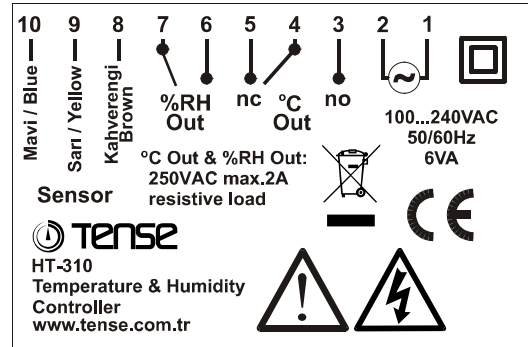
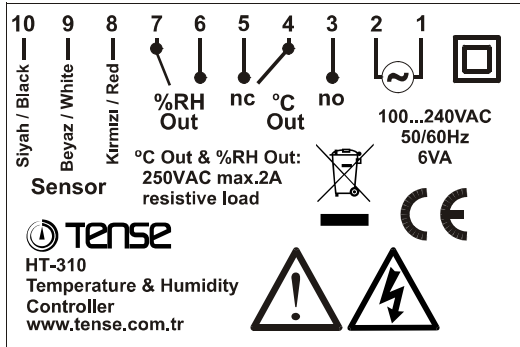
TECHNICAL SPECIFICATION

- **Dimensions** : 35x77mm
- **Display** : 3 Digits 7 Segment
- **Sensor Type** : Digital Temperature/Humidity sensor
- **Measuring Scale** : -19.9 .. 80.0 °C, 5 .. 95%RH
- **Resolution** : ± 1 °C, ± 1 %RH
- **Accuracy (typical)** : $\pm \% 1$ (°C), $\pm \% 3$ (%RH); over full scale
- **Control Form** : ON-OFF
- **°C OUT Output** : Relay (NO + NC), 250VAC, 2A, Resistive load
- **%RH OUT Output** : Relay (NO), 250VAC, 2A, Resistive load
- **°C Function** : Ht (heating), CL (cooling); selectable
- **%RH Function** : lo (decrease humidity), hi (increase humidity); selectable
- **Supply Voltage** : 100..240VAC, 50 / 60Hz
- **Power Consumption** : < 6VA
- **Operating Temp.** : 0 .. 50 °C
- **Operating Altitude** : < 2000m
- **Weight** : < 0.5kg
- **Failure** : In case of measurement failure, "Err" message displayed and Relay outputs become OFF.

Error Message:

- "Err" : In case of measurement failure, "Err" message displayed and Relay outputs become OFF

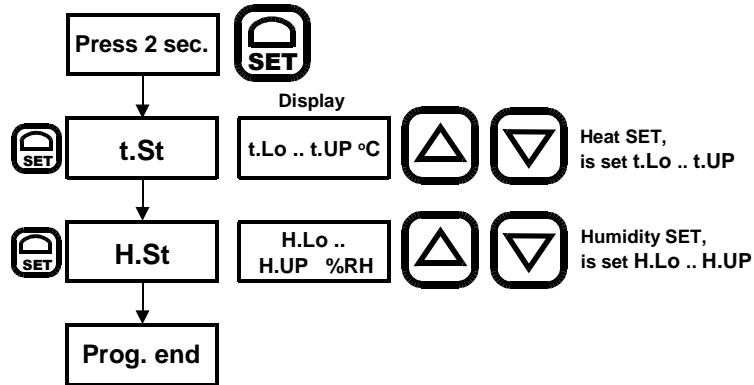
CONNECTION



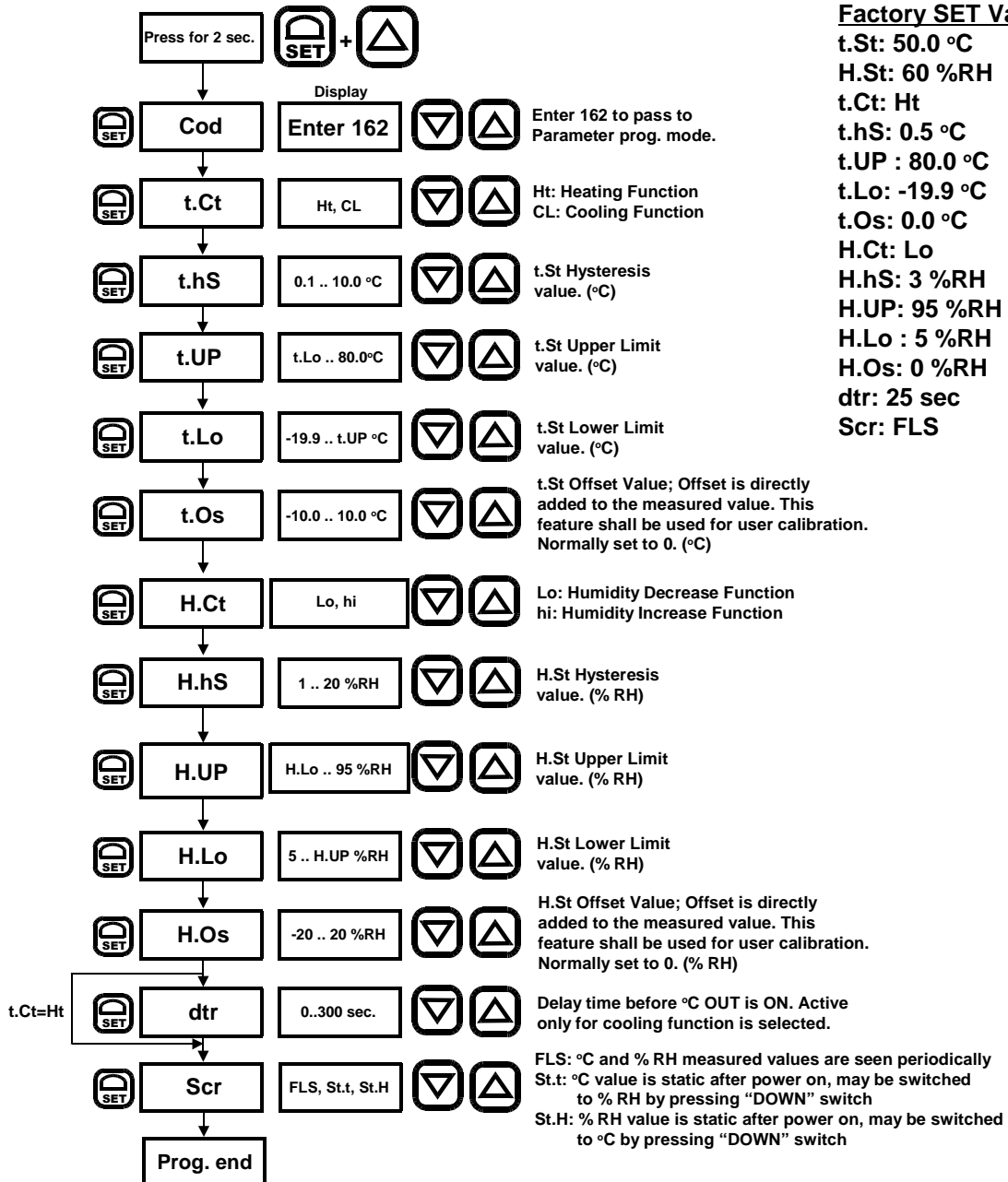
Please **POWER OFF** device before making any connection to the Temperature/Humidity sensor. Pay attention to the color codes of the sensor cable given at the device label. Wrong connection may result permanent sensor failure.

no: normally open
nc: normally closed

Programming Heat SET ve Humidity SET:



Programming Other Parameters:

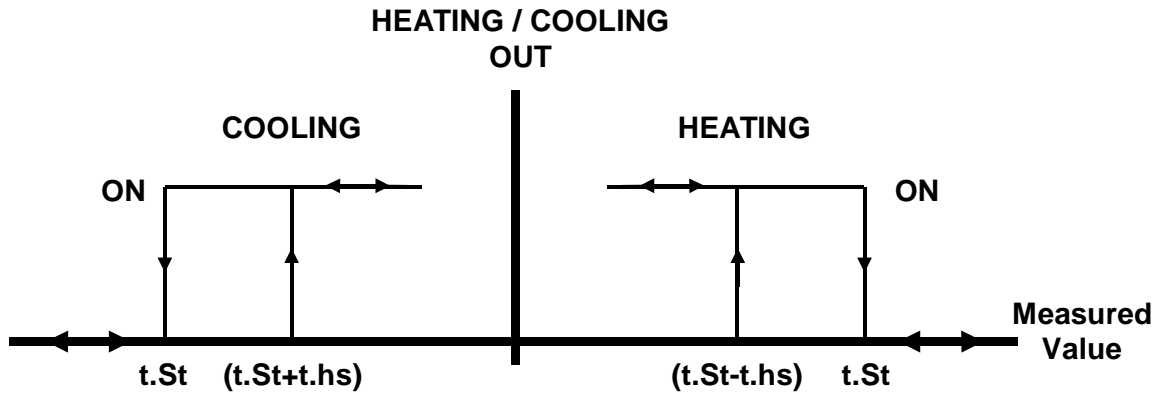


Factory SET Values:

- t.St: 50.0 °C
- H.St: 60 %RH
- t.Ct: Ht
- t.hS: 0.5 °C
- t.UP : 80.0 °C
- t.Lo: -19.9 °C
- t.Os: 0.0 °C
- H.Ct: Lo
- H.hS: 3 %RH
- H.UP: 95 %RH
- H.Lo : 5 %RH
- H.Os: 0 %RH
- dtr: 25 sec
- Scr: FLS

OPERATION

Heating Cooling Output:



Humidity Control Output:

