



Display Color:
White Or Red

TECHNICAL SPECIFICATION

INPUT SPECIFICATION :

Input	Humidity Sensor (RH-85)
Resolution	0.1% RH
Range	0.0 to 85.0% (Subject to type of sensor)
Accuracy	±1% of FSD (Full Scale Deflection)

DISPLAY AND KEYS :

Display	3 digit, 7 segment, 0.67"
LED Indication	Relay, Alarm, RH%

DIMENSION :

Size	40 (H) x 83 (W) x 70 (D) mm
Panel Cutout	30 (H) x 71 (W) mm

OUTPUT SPECIFICATION :

Relay Output	
Relay	2 nos. (1 st Relay for Humidification or Dehumidification 2 nd Relay for Alarm)
Relay Type	1 C/O (NO-C-NC)
Rating	10A@ 230V AC (Resistive load)

FUNCTIONAL SPECIFICATION :

Control Action	ON-OFF
Hysteresis	0.1 to 20.0% RH
Mode	Humidification / Dehumidification
Alarm	High & Low/ High/Low

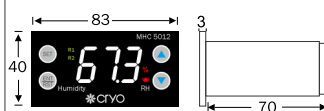
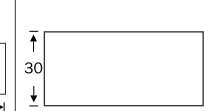
AUXILIARY POWER SUPPLY :

Supply voltage	230V AC, 50-60Hz
Power consumption (VA RATING)	3VA Max @ 230V AC

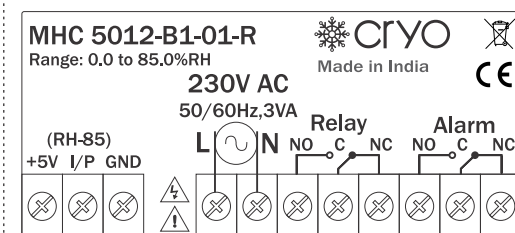
ENVIRONMENT CONDITION :

Operating Temp.	0°C to 55°C
Relative Humidity	UP to 95% RH (non-condensing)
Protection Level (As Per request)	IP-65 (Front side) As per IS/IEC 60529 : 2001

MECHANICAL INSTALLATION

Outline Dimension (mm)	Panel Cutout Dimension (mm)
	

TERMINAL CONNECTION



SAFETY PRECAUTION

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.



Read complete instructions prior to installation and operation of the unit.



WARNING : Risk of electric shock.

WARNING GUIDELINES



WARNING : Risk of electric shock.

- To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
- To reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
- Cable used for connection to power source, must have a cross section of 1mm or greater. These wires should have insulations capacity made of at least 1.5kV.
- When extending the thermocouple lead wires, always use thermocouple compensation wires for wiring for the RTD type, use a wiring material with a small lead resistance (5Ω max per line) and no resistance differentials among three wires should be present.
- A better anti-noise effect can be expected by using standard power supply cable for the instrument.

INSTALLATION GUIDELINES

- This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
- Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
- Circuit breaker or mains switch must be installed between power source and supply terminal to facilitate power 'ON' or 'OFF' function. However this mains switch or circuit breaker must be installed at convenient place normally accessible to the operator.
- Use and store the instrument within the specified ambient temperature and humidity ranges as mentioned in this manual.

MECHANICAL INSTALLATION GUIDELINES

- Prepare the panel cutout with proper dimensions as shown above.
- Fit the unit into the panel with the help of clamp given.
- The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oil steam, or other unwanted process byproducts.
- Use the specified size of crimp terminal (M3.5 screws) to wire the terminal block. Tightening the screws on the terminal block using the tightening torque of the range of 1.2 N.m.
- Do not connect anything to unused terminals.

MAINTENANCE

- The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.
- Fusible resistor must not be replaced by operator.



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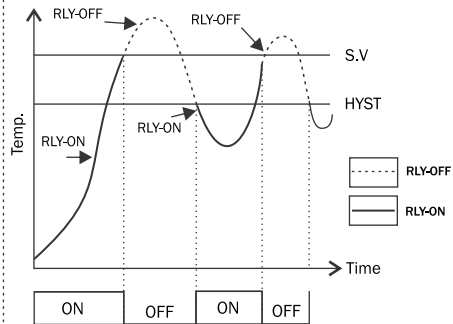
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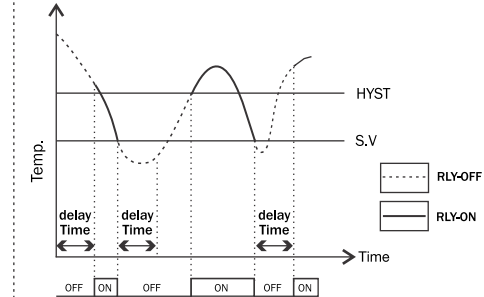
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PARAMETER DESCRIPTION

Humidification Function



Dehumidification Function



SET LOW LIMIT (SLL) PARAMETER

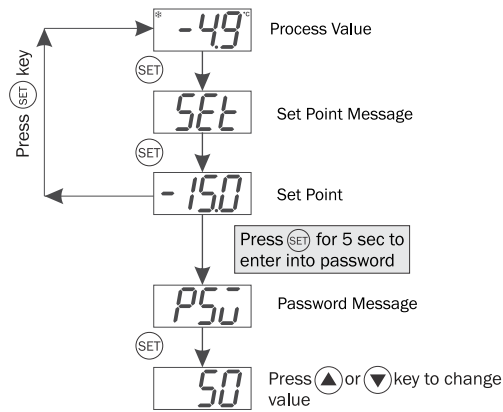
- Set low limit (range : 0.0 to SHL) SLL indicate setpoint lower limit it is lock at some specific value. setpoint can not be set lower than this value.
- If humidity reached down to this value, then display show "LOW"
- If message for 1 sec. and present value display for 2 sec.

SET HIGH LIMIT (SHL) PARAMETER

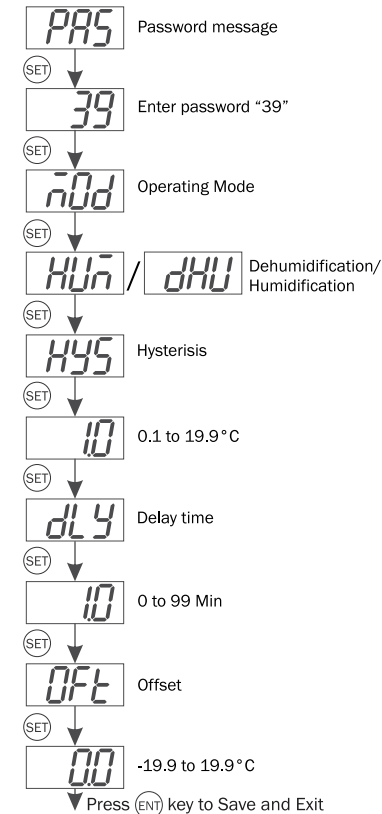
- Set high limit (range : SLL to 99.9%) SHL indicate setpoint higher limit it is lock at some specific value. setpoint can not be set higher than this value.
- If Humidity reached higher to this value, then display show "HIG"
- If message for 1 sec. and present value display for 2 sec.

PARAMETER SETTING

Set Point Setting



To ENTER IN BASIC CONFIGURATION SETTING, ENTER PASSWORD "39"



To ENTER IN ADVANCE SETTING, ENTER PASSWORD "69"

