ENTHALPY CONTROLLER

**FEATURES**

- Microprocessor based with or without display
- Used in conjunction with 2 sets of temperature and RH sensors
- Calculates return/ambient air enthalpy, wet-bulb temperature calculation optional
- 2 position (ON/OFF) and modulating outputs
- Controls
  - Fresh/Return/Exhaust air dampers
  - Cooling/Heating plant
  - Humidifier/dehumidifier
  - Heater banks
- Calculates and compares return/ambient air enthalpies
- Operates the damper to minimize energy usage for free cooling
- Can be used with energy recovery system

**BENEFITS**

- Operates the damper to minimize energy usage for free cooling
- Can be used with energy recovery system

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Sensing element</th>
<th>Temp.</th>
<th>RH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>: NTC Thermistor</td>
<td>: High polymer type</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensing accuracy</th>
<th>Temp.</th>
<th>RH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>± 1° C</td>
<td>± 5% rh</td>
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</table>

| Display type*    | 8 character x 2 line, alphanumeric, dot matrix, STN LCD with back light |
| Display resolution | 0.1% of the maximum value |

| Operating voltage | 24V AC |
| Digital output rating | 3A, 230V AC |
| Terminals         | Accept max. 2.5 sq. mm cable |

| Permissible ambient temp. | -20° C to 40° C |
| Protection              | IP 30 |

* wherever applicable
MODEL DESIGNATION

C - 2 - 5 - - -

Operating voltage
24V AC, 1 phase, 50/60 Hz

Housing type
Predefined

Inputs*
Temperature
T2 = 0° to 50°C
RH
H1 = 30% to 80%

Outputs*
V = 0-10V DC

Special Features #
D = LCD Display
R4 = RS 485 communication
H = Enthalpy
X = None

NOTES:
- *** In case of more than one input/output, the type of multiple input/output shall be specified in the same block, i.e., T1.T2.
- *** In case of input from external sensor and E to that input, i.e., ET1.ET2.
- # In case of more than one special feature the multiple features shall be specified in the same block i.e. EI.B