

# TCONTROL-05 Electronic Controller



nVent RAYCHEM TCONTROL-05 is a family of single circuit electronic temperature controllers for non-hazardous areas. Most often this controller is installed in panels. Various versions of this controller are available, see datasheet for more details. Each can be used in combination with any PT100 temperature sensor or standard thermocouples. The temperature range is from -200 to 2400 °C, depending on the type of temperature sensor used.

## FEATURES

Easy to install, program and operate: display indicates the process value and the set point, during programming it also provides guidance to simplify commissioning, service counters record and eventually alarm on the number of relay operations

Easy to use RAYCHEM TCONTROL-05/CONFIG software can optionally be used for computer aided configuration

Robust, compact and space saving

Adjustable set point: -200 °C to +2400 °C, depending on temperature sensor

Time-delay after initial power up: can be used to avoid peak demands on power during start-up

Input temperature sensors are permanently monitored for failures

## SPECIFICATIONS

|                               |              |
|-------------------------------|--------------|
| <b>Height:</b>                | 48 mm        |
| <b>Width:</b>                 | 48 mm        |
| <b>Depth:</b>                 | 78 mm        |
| <b>Voltage Rating:</b>        | 110 – 240 V  |
| <b>Operating Temperature:</b> | -10 to 55 °C |

Table 1/1

| Catalog Number | Item Name        | Communication Protocol | 4-20 mA Temperature Input |
|----------------|------------------|------------------------|---------------------------|
| 1244-022499    | TCONTROL-05/COM  | Modbus RTU             | No                        |
| 1244-022498    | TCONTROL-05/COMA | Modbus RTU             | Yes                       |

| Catalog Number | Item Name      | Communication Protocol | 4-20 mA Temperature Input |
|----------------|----------------|------------------------|---------------------------|
| 1244-022496    | TCONTROL-05    | None                   | No                        |
| 1244-022497    | TCONTROL-05/MA | None                   | Yes                       |

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

### North America

Tel +1.800.545.6258  
 Fax +1.800.527.5703  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Europe, Middle East, Africa

Tel +32.16.213.511  
 Fax +32.16.213.604  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Asia Pacific

Tel +86.21.2412.1688  
 Fax +86.21.5426.3167  
[cn.thermal.info@nvent.com](mailto:cn.thermal.info@nvent.com)

### Latin America

Tel +1.713.868.4800  
 Fax +1.713.868.2333  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

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