

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

Height:	48 mm
Width:	48 mm
Depth:	78 mm
Voltage Rating:	110 – 240 V
Operating Temperature:	-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 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.

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