

# Product data sheet

Specifications



temperature control relay REG - 48  
x 48 mm - 100..240 V AC - current  
4..20 mA

REG48PUN1JHU

⚠ Discontinued on: Jan 6, 2016

⚠ Discontinued

## Main

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Range of product             | Zelio Control                                                  |
| Product or component type    | Modular measurement and control relays                         |
| Relay type                   | Temperature control relays                                     |
| Product specific application | Packaging<br>HVAC<br>Heating or cooling<br>Industrial machines |
| Relay name                   | REG                                                            |

## Complementary

|                             |                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outer dimension             | 48 x 48 mm<br>1/16 DIN                                                                                                                                                                                                          |
| Analogue input type         | Temperature probe Pt 100<br>Thermocouple thermocouple J, K, R, B, S, T, E, N, PLII<br>Current 4...20 mA<br>Voltage 1...5 V<br>Current 0...20 mA<br>Voltage 0...0.1 V<br>Voltage 0...10 V<br>Voltage 0...5 V<br>Voltage 2...10 V |
| [Us] rated supply voltage   | 100...240 V AC                                                                                                                                                                                                                  |
| Supply voltage limits       | 85...264 V                                                                                                                                                                                                                      |
| Measurement accuracy        | 0.3 % full scale                                                                                                                                                                                                                |
| Sampling duration           | 200 ms                                                                                                                                                                                                                          |
| Number of outputs           | 1 analog                                                                                                                                                                                                                        |
| Output type                 | Analog 4...20 mA                                                                                                                                                                                                                |
| Alarm output                | 2 C/O                                                                                                                                                                                                                           |
| Power consumption in VA     | 12 VA 100...240 V AC                                                                                                                                                                                                            |
| Communication port protocol | Modbus                                                                                                                                                                                                                          |
| Method of access            | Slave                                                                                                                                                                                                                           |
| Transmission frame          | RTU                                                                                                                                                                                                                             |
| Physical interface          | RS485 non isolated                                                                                                                                                                                                              |
| Exchange mode               | Half duplex                                                                                                                                                                                                                     |
| Transmission rate           | 9600, 19200 kbit/s                                                                                                                                                                                                              |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                     |                                                                                                                                                                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function available  | Manual operation<br>Hysteresis on-off<br>PID<br>Auto tuning<br>Soft start<br>Ramp 16 steps<br>Fuzzy logic                                                                                                                                                                                                    |
| Marking             | CE                                                                                                                                                                                                                                                                                                           |
| Operating position  | Any position                                                                                                                                                                                                                                                                                                 |
| Display type        | 7 segments LCD                                                                                                                                                                                                                                                                                               |
| Display digits      | 4                                                                                                                                                                                                                                                                                                            |
| Signalling function | Setpoint value indicator (SV) LED green<br>Process output 1 active (C1) LED red<br>Alarm output 1 active (D01) LED green<br>Alarm output 2 active (D02) LED green<br>Process output 2 active (C2) LED red<br>Process value indicator (PV) LED red<br>Process value LCD display<br>Setpoint value LCD display |
| Mounting support    | Panel                                                                                                                                                                                                                                                                                                        |

## Environment

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| Standards                             | EN 61010-1<br>EN 61326-1<br>CSA C22.2 No 24-93   |
| Product certifications                | cURus (873)<br>GOST                              |
| Ambient air temperature for storage   | -4...140 °F (-20...60 °C)                        |
| Ambient air temperature for operation | 14...122 °F (-10...50 °C)                        |
| Relative humidity                     | 90 % without condensation                        |
| Operating altitude                    | 2000 m                                           |
| Storage altitude                      | 0...9842.5 ft (0...3000 m)                       |
| Vibration resistance                  | 1 gn (f= 10...70 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 5 gn IEC 60068-2-27                              |
| IP degree of protection               | IP66 IEC 60529 front face)<br>IP20 rear)         |
| NEMA degree of protection             | NEMA 4X front face                               |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

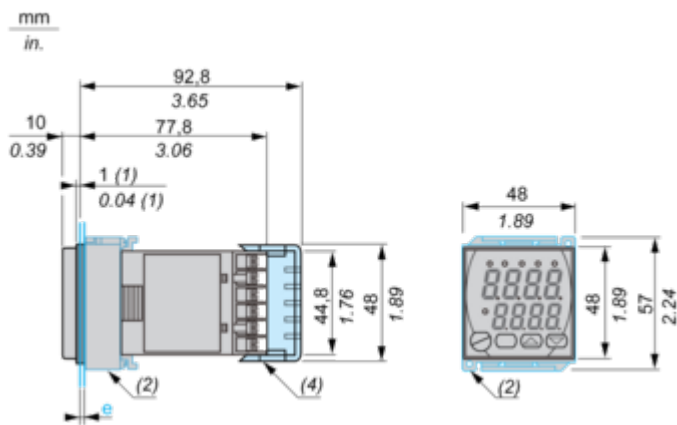
### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

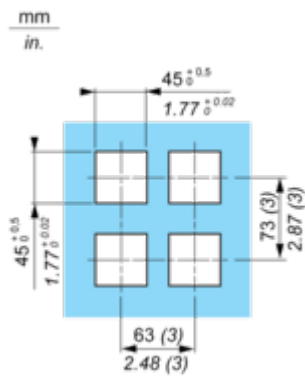
Dimensions Drawings

48 x 48 Size – 1/16 DIN Standard

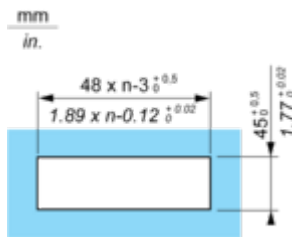
Panel Mounting: Bracket Supplied



- (1) Seal
  - (2) Fixing brackets supplied with **REG** temperature control relays.
  - (4) Terminal block cover, to be ordered separately.
- Panel cut-out



- (3) Minimum value.
- Side stick mounting: n units (water-proof property lost in this case)



Connections and Schema

Temperature Control Relays

Wiring Diagram

