



**CORRIGO R10-Lon is a zone controller with Lon-communication designed for room control. It can control heating and/or cooling actuators.**

- \* Setpoint 0...30°C
- \* Two sensor or digital inputs
- \* Heating and cooling output in sequence
- \* Triac outputs, one 3-point floating or two thermal actuators
- \* Lon Works communication

## Function

CORRIGO R10-Lon is a zone controller for wall mounting. It can be run either against the built-in temperature sensor or an external sensor.

### Universal outputs

The controller has two outputs that can be set to be either two 0...10 V analogue outputs for heating and cooling or two digital outputs.

In digital mode the outputs can be used either with a 3-point floating control actuator or with two thermal actuators for heating / cooling. When set to digital function each output is controlled by a 24 V triac. When set for analogue, the output is a standard 0...10 V signal for heating or cooling (direct or reverse action).

### Universal inputs

The controller has two inputs for either external room sensor, external presence detector or window contact.

### Setpoint

The basic setpoint is set via the Lon network, it can be shifted  $\pm 3$  K using the knob on the side of the unit.

### Indications

There is a red status LED under the cover, steady lightning in normal mode and blinking in bypass mode. Under the cover there is also a service LED for communication status.

### LonWorks communication and LonMark

All control parameter settings are done over the Lon network. The communication is in compliance with LonMark guidelines in order to fulfill LonMark certification\*.

\*) = Chilled ceiling profile

## Technical data

|                     |                              |
|---------------------|------------------------------|
| Supply voltage      | 24 V AC +/- 15 %, 50...60 Hz |
| Power consumption   | 4 VA                         |
| Ambient temperature | 0...50°C                     |
| Storage temperature | -40...+50°                   |
| Ambient humidity    | Max 90% RH                   |
| Protection class    | IP20                         |



This product conforms with the requirements of European EMC standards CENELEC EN 50081-1 and EN 50082-1 and carries the CE mark

### Inputs

|                   |   |
|-------------------|---|
| Universal input 1 | NTC-sensor, 0...10 V or digital contact (digital/analogue selected by jumper) |
| Universal input 2 | NTC-sensor or digital contact (digital/analogue selected by jumper)           |

### Outputs

|                    |  |
|--------------------|--|
| Universal output 1 | Analogue 0...10 V DC, 1 mA, or 24 V triac on/off (digital/analogue selected by jumper) |
| Universal output 2 | Analogue 0...10 V DC, 1 mA, or 24 V triac on/off (digital/analogue selected by jumper) |

### Settings

|                           |   |
|---------------------------|---|
| Setpoint (knob on contr.) | ± 3 K                                   |
| Setpoint (basic setpoint) | 0...30°C, is set via network variables  |
| P-band                    | Is set via network variables            |
| I-time                    | 1..20 min, is set via network variables |
| NZ (neutral zone)         | 0...3 K, is set via network variables   |

### Indications

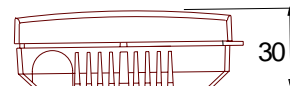
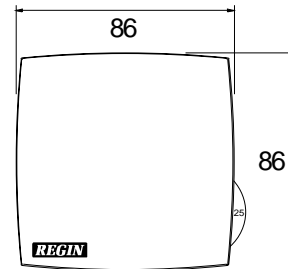
|             |   |
|-------------|---|
| Service LED | Red LED under the cover for indication of communication and processor status. |
|-------------|---|

## LonWorks network variables

See separate leaflet

## Wiring and dimensions

|    |                        |
|----|------------------------|
| 1  | Supply 24 V AC         |
| 2  | System neutral 24 V AC |
| 3  | Universal output 1     |
| 4  | Universal output 2     |
| 5  | Signal neutral         |
| 6  | Universal input 1      |
| 7  | Universal input 2      |
| 8  | Lon Net A              |
| 9  | Lon Net B              |
| 10 | Ground                 |



System neutral 24 V AC  
and signal neutral are  
internally connected

IMPROVING INDOOR CLIMATE CONTROL WORLDWIDE

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