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|  | Control of radiator heating systems  Room thermostat RDD310/EH   * Control of radiator heating system * Room temperature limitation with built-in sensor   RDE410/EH variant   * With Auto Timer |
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| Plant diagram |  |
| 1421S02.wmf |
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| Function diagrams |  |  |  |
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|  |  | T: Room temperature  SDH Switching differential heating  W: Room temperature setpoint  Y1: Output signal for heating  The thermostat acquires the room temperature with its built-in sensor and maintains the setpoint by delivering control commands. The switching differential is 1 K. |

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| Description  of functions | Basic functions |  |
| * Floor temperature limitation with built in temperature sensor * Operating voltage AC 230 V * 2-position control with On/Off control output |  |

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|  | Auxiliary functions |  | Variants |
| * Operating modes: Comfort, Economy and Frost Protection * Minimum and maximum limitation of setpoint setting range * Backlit white LCD * Protection class IP31, suitable for installation in wet rooms |  | * With RDE410/EH: Auto Timer: 8 programmable 7-day time switches to switch between Comfort and Economy mode |
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| Device list | <START StandardDeviceList>   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Legend** | **Type of unit** | **Data sheet** | **Product No.** | **Qty.** | | N1 | Semi flush-mount room thermostats | N1440 | RDD310/EH | 1 | | Y1 | 2-port, 3-port or 3-port valve with T-bypass |  | V..I46 / V..P46 / V..P47 | 1 | |  | Actuator for small valves, 2-position, AC 230 V |  | S..21.. | 1 |   <END StandardDeviceList> |
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| Variants | <START VariantsDeviceList>   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Legend** | **Type of unit** | **Data sheet** | **Product No.** | Qty. | | N1a | Semi flush-mount room thermostats with auto timer | N1440 | RDE410/EH | 1 |   <END VariantsDeviceList> |
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| Connection diagram | Y:\D02_Graphics_and_Pictures\Thermostats\REVxx\REVxxxx_1421\1421A01a.wmf |

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|  | L | Live conductor AC 230 V |  | M | Measuring neutral for external sensor |
| N | Neutral conductor |  | B1 | External temperature or floor sensor |
| Y1, N1 | Control output for "Radiator heating system", AC 230 V, Max. 16 A |  | E1 | Heating equipment  (e.g. Radiator heating system) |
|  |  |  | E2 | Alternative equipment of E1  (e.g. a valve) |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Parameter- settings | Parameter |  |  |  | | The parameter settings are as shown in the thermostats RDD310/EH, RDE410/EH data sheet.  See there for further information. | | | | |  |  | | | | |

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