# facts

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# New semi flush-mount room thermostats RDD310 / RDE410

For heating applications

**SIEMEN** 

**HVAC Products** 



**No. 32E056BCen** July 2009

32 – Room Thermostats Product release

Product(s) RDD310

RDE410

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New semi flush-mount room thermostats RDD310 / RDE410 for heating applications

# Introduction

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Some 2 years ago, Siemens launched the first RDF semi flush-mount room thermostats for fan coil and VAV applications. The success of these thermostats generated numerous inquiries from customers, which is why Siemens continues to extend the range. So, additional versions in the form of RDD310 and RDE410 are now introduced – tailored to heating applications, including wall-hung boilers and underfloor heating.

The new RDD310 and RDE410 come with the same stylish, slim look and feel as the RDF semi flushmount room thermostats. They fit snugly into an 86 x 86 x 47 mm conduit box with 60.3 mm fixing centers (conforming to BS 4662/ IEC 60670). Optional conduit boxes (ARG71) are also available as accessory items. Another accessory item – the plastic mounting bracket ARG70.3 – is specifically designed for conduit boxes with insufficient depth. The ARG70.3 is mounted between the wall and the thermostat to increase space in the box by approximately 10 mm.

The new RDD310 and RDE410 not only guarantee optimum comfort, but...

- are easy to operate,
  - provide brilliant, easy-to-read large display with backlight,
  - help reduce energy costs thanks to a 7-day time program,
  - offer "Comfort", "Energy saving", "Auto timer" and "Frost protection" modes selectable by the touch of a button,
  - afford minimum and maximum setpoint limitation,
  - offer floor temperature limitation in conjunction with a remote sensor (suitable for electric underfloor heating).

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**RDE410** 

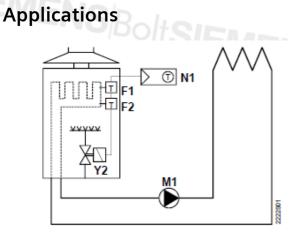


- Backlit LCD •
- Operating modes: "Comfort", "Energy saving" and "Frost protection" •
- Minimum and maximum setpoint limitation •
- Selectable commissioning and control parameters •
- Selectable display of room temperature or setpoint •
- Floor temperature limitation •
- Input for remote temperature sensor •

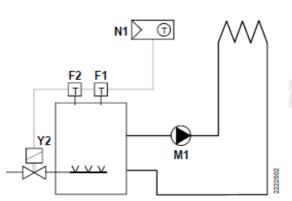
### Additional key feature of RDE410 vs. RDD310:

• 7-day time program with 8 timer functions

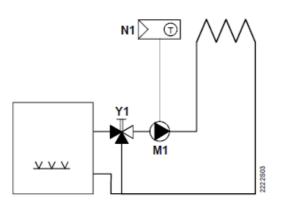




### Instantaneous hot water



Atmospheric gas burner





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Direct control of a heating circuit pump

# SIEMENSBolt SIEMENSB Product replacement

The new RDD310 and RDE410 do not replace any existing products. They complement the existing Siemens range of room thermostats to extend the semi flush-mount room thermostat portfolio.

### Sales release

The RDD310 (SSN: S55770-T107) is now available for ordering.

The RDE410 (SSN: S55770-T108) will be released at the end of October 2009.

Product	Price list 2009 (€)	Order quantity	Sales release
RDD310	66,18	1 (10)	August 2009
RDE410	81,95	1 (3)	November 2009
ARG71	6,98	1 (5)	May 2009

# **Technical documentation**

Product	Type of document	Document number
	Data Sheet	N3077
RDD310/	Mounting / Installation Instructions	M3077
RDE410	Operating Instructions	CE1B3077
	CE Product Declaration	CE1T3076
	Environmental Product Declaration	CE1E3076

DOIT.

The Data Sheet and technical Documentation are available and can be downloaded from:

http://www.siemens.gr/buildingtechnologies/?lang=en

If you have any questions about documentation, please feel free to contact with George Voulvoutzis, phone +30 210 6864177, e-mail: <u>george.voulvoutzis@siemens.com</u>

### HIT tool

For the next HIT tool HQ update, the RDD310 / RDE410 will be added to the product selection tool.

Application		Heating / Cooling changeover	User Interface	Operating voltage
- all -	~	- all -	- all -	🗸 🔤 - all -
Output Heating		Output Cooling	Input	
- all -	~	- all -	<ul> <li>- all -</li> </ul>	*
Operating Mode	Switch			
Return air senso	or			
Secondary Heat	ting			

Functions, features and benefits				
Slim and stylish with semi flush-mount design				
Features / functions	Benefits	SICIVIEN		
	New semi flush-mount room thermostat offers a very slim, modern and stylish look. Ergonomic user interface with large display and buttons make this thermostat particularly user-friendly.			

## **Backlit LCD**

Features / functions	Benefits
ٺ@.*« » * <b>88.8</b> # 88:8.8 *	Backlit LCD with soft blue color improves readability in dark environments and at night.
<u>1234567</u>	

### Display of setpoint or current room temperature

Features / functions	Benefits
Current room temperature	As an alternative to displaying current room temperature, the thermostat can be configured to display the setpoint only, simplifying user- operation, which is of particular interest for hotel rooms and public areas.

## Different operating mode at the touch of a button

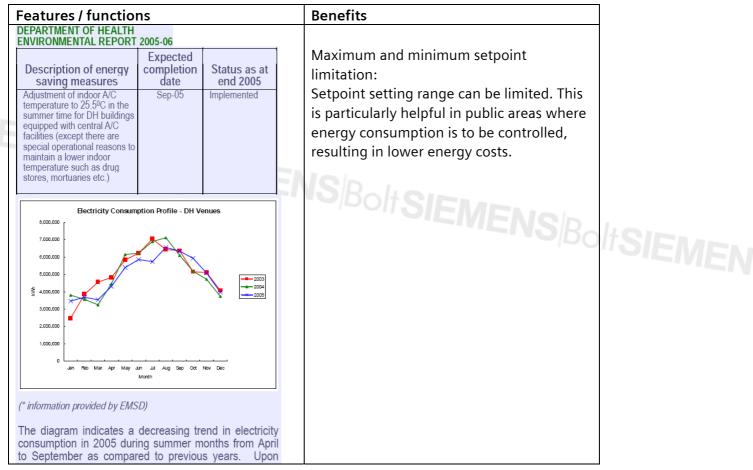
Features / functions		Benefits	
or (RDD310 / RDE410)	(RDE410)	User easily selects operating mode best suited to his needs. RDD310 / RDE410 offer 4 operating modes: - Always "Protection" - Always "Comfort" - Always "Energy saving" - Auto: "Comfort" or "Energy saving" mode according to timer (RDE410 only)	
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# 7-day time program with 8 timer functions (RDE410 only)

Features / functions	Benefits
Ø	7-day time program enables thermostat to manage appropriate room temperature day and night by switching automatically between "Comfort" and "Energy saving" mode.
(RDE410)	<b>Example:</b> Guarantees perfect comfort when user awakens.

### **Setpoint limitation**



### Maximum temperature limitation for electric underfloor heating (conforming to DIN EN 1264)

Features / functions	Benefits
Max. 5 A res.	Function for electric underfloor heating*. Floor temperature sensor, connected to multifunctional input, monitors the floor temperature. This function enhances comfort and protects the floor on applications with underfloor heating.

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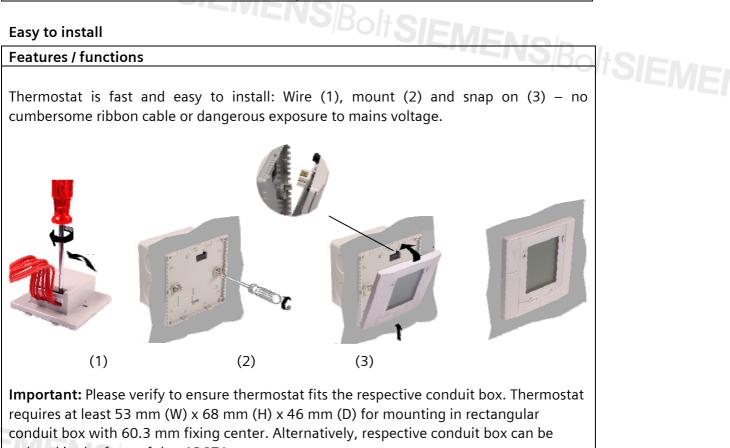
# SIEMENS<sup>Bolt</sup>SIEI **Button lock**

### Features / functions **Benefits** 0--Automatic / manual lock of buttons helps Buttons locked. Can prevent unauthorized readjustment of be unlocked by room thermostat. 同 pressing operating mode button $\bigcirc$ for

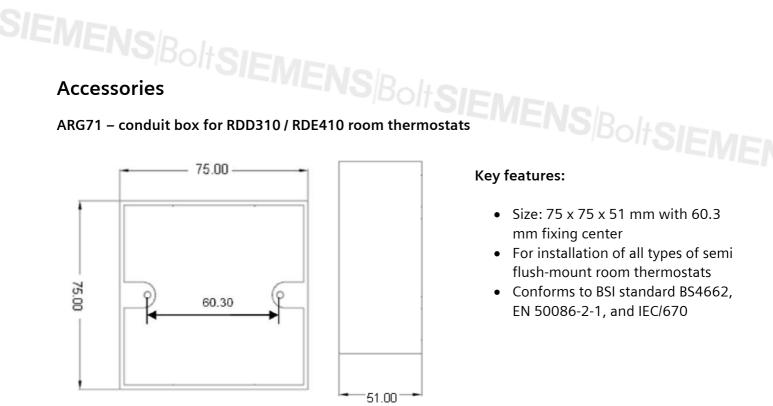
# Adjustable control parameters

Features / functions	Benefits
P69 ON MENSBoltSIEME	Many control parameters (service or expert level) can be adjusted to meet individual needs. This gives high flexibility and enables the thermostat to adapt to any type of application. <b>Example:</b> Low / high setpoint range can be set accordingly (within) allowable range of heat demand.

### Easy to install



ordered in the form of the ARG71.



### **Key features:**

- Size: 75 x 75 x 51 mm with 60.3 mm fixing center
- For installation of all types of semi flush-mount room thermostats
- Conforms to BSI standard BS4662, EN 50086-2-1, and IEC/670



ARG70.3 – plastic mounting bracket for conduit boxes without sufficient depth

81.50±.20 10.00±.20 **Key features:** • For installation of all types of semi flush-mount room thermostats • ARG70.3 placed between wall and room thermostat increases space in the box by 65.504.10 81.50±.20 Û 10 mm 52.401.10 -32E056BCen - July 21, 2009 - HVAC Products

# SIEMENS<sup>Bolt</sup>SIEMENS<sup>Bolt</sup>SIEMENS<sup>Bolt</sup>SIEMENS

The new RDD310 and RDE410 are easy-to-understand devices that do not require special training. Individuals familiar with the RDF semi flush-mount room thermostats will easily understand the functionality of the new offering.

If you have any questions relating to this fact, please do not hesitate to contact with us

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