KSTb

Room unit for temperature

FUNCTION

KST is used in the e.r.i.c. system for individual control of the room temperature. All room units feature a temperature sensor this is affected by the temperature in the surrounding air and by radiant heat from the room. KST 2 and 4 variants have modular jacks for the connection of operator panel KOP which provides direct access to the regulator's LonWorks-parameters. KST 1 is intended for the LonWorks-system with remote setting of the required room temperature.

QUICK FACTS

- Temperature sensor of the thermistor type
- Connecting the operator panel KOP
- Adjustable set point value for the room temperature
- Lockable setting range for the temperature
- Available with a button for overtime work
- Green running mode

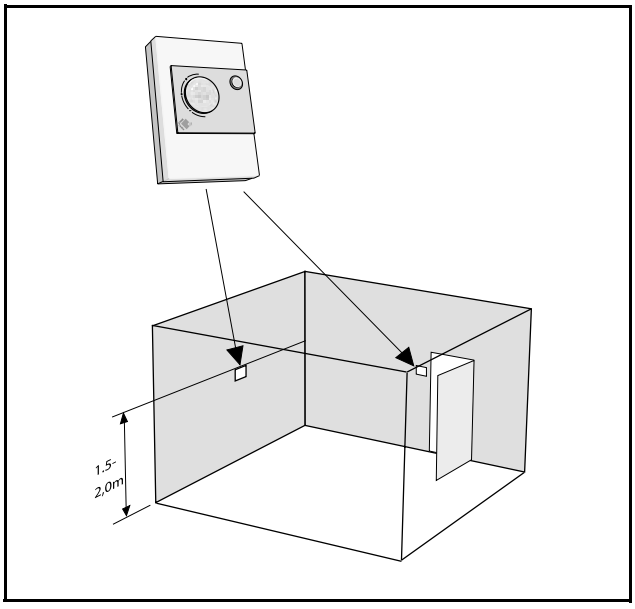

Figure 1. *Placement of the room unit KST.*

DESIGN

KST is a temperature sensor this is affected by the temperature in the surrounding air and by radiant heat from the room. KST 2 and 4 variants have modular jacks for the connection of operator panel KOP and a LED with the following functions: Comfort mode = on, Standby = flashing, Shutoff = off. The functions are controlled by the regulator KCD, KCW or KRF, that KST is conntected to. There are further functions available depending on the type of room unit, e.g. bypass switch and set point value adjustment. The bypass button is only selected if a master control system sets the regulators in the different operating modes. KST 1 is selected for systems where only the room temperature is to be read on the regulator and where other functions are managed by a master system.

MATERIALS AND SURFACE TREATMENT

Manufactured in white and grey ABS-plastic.

INSTALLATION (See figure 1)

KST is ideally installed between 1.5 to 2 m above the floor on an optional wall in the room. Must not be exposed to direct sunlight.

MAINTENANCE

Dirty products may only be cleaned dusting or wiping with a damp cloth.

DECLARATIONS

The product is CE marked.
CE declaration and *Environmental Product Declaration* are available from our website.

CONNECTION

Connections are made according to the wiring diagram for the product that KST is to be connected to, see KCD, KCW or KRF.

Electrical data

Ambient temperature:	
Operation	0°C -+50°C
Storage	-40°C -+70°C
Relative humidity	max 90% RH (non condensing)
Enclosure:	
Material	ABS-plastic
Enclosure class	IP 20
Sensor, thermistor	1800 Ω at 25°C
Accuracy, sensor, 0 to +35°C	±0,3°C
Time constant	approx. 7 min

KST variants

Variants	Temp.-sensor	Operating indicator	Bypass-button	Set point value setting
1	x	x		
2	x	x		x
4	x	x	x	x

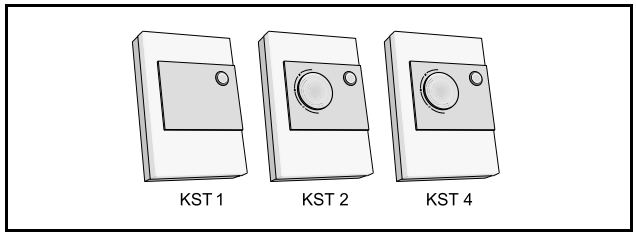

Figure 2. *Design.*

DIMENSIONS

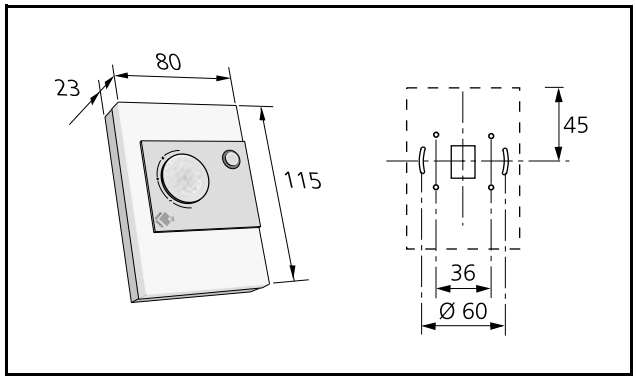

Figure 3. *Dimensions.*

Wire cross-section requirements

Cable from room units max 30 m with 0.7 mm^2. Connection to LONTALK® TP/FT-10 Free Topology Channel should be made using twisted pair cable. More information is avaible in our electrical guide that can be found on our website.

ORDER KEY

Product designation

Room unit	KSTb	-a
Variants: 1, 2 or 4 See table		

SPECIFICATION EXAMPLE

Example of the specification text according to VVS AMA.
GT XX
Swegon room unit for temperature control type KSTb which is included in the e.r.i.c. system, with the following functions:

- Temperature sensor of the thermistor type
- Connecting the operator panel KOP
- Adjustable set point value for the room temperature
- Lockable setting range
- LED to indicate the operating mode

Type:	KSTb 2	xx st

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www.swegon.se