



## ROOM THERMOSTATS, WITH FIXED AND ADJUSTABLE DIFFERENTIAL, IP65

**DBET**

### FUNCTION

Room temperature control in:

- single or multi-stage heating systems;
- single or multi-stage cooling systems;
- single or two-stage heating and cooling systems.

Models with setpoint adjustment by knob on or under the cover and range calibration.

### APPLICATIONS

Well-suited for heating, cooling and air conditioning systems in dusty, damp and strong polluted areas: industrial areas, commercial buildings, storage room, garages, machine rooms, factories, greenhouses and agricultural installations.

TYPE	RANGE °C	STAGES	DIFFERENTIAL IN THE STAGE K	DIFFERENTIAL BETW. THE STAGES K	MAX. BULB TEMP. °C
DBET-22	-30...+30	1	2...15		65
DBET-22U	-30...+30	1	2...15		65
DBET-22/2	-30...+30	2	1	2...5	65
DBET-22/2U	-30...+30	2	1	2...5	65
DBET-23	-30...+30	1	1		65
DBET-23U	-30...+30	1	1		65
DBET-26	0...+60	1	2...15		65
DBET-26U	0...+60	1	2...15		65
DBET-26/2	0...+60	2	1	2...5	65
DBET-26/2U	0...+60	2	1	2...5	65
DBET-27	0...+60	1	1		65
DBET-27U	0...+60	1	1		65

U models with range under the cover

### TECHNICAL DATA

<b>Sensitive element:</b>	liquid-filled coiled copper bulb
<b>Contacts:</b>	dust-tight microswitches with SPDT contacts (heat/cool)
<b>Switch capacity:</b>	15 (8) A, 24...250 Vac
<b>Differentials:</b>	fixed or adjustable (see schedule)
<b>Working:</b>	-35...+65 °C
	10...90% r.h. (without condensing)
<b>Storage:</b>	-40...+60 °C
	< 95% h.r.
<b>Housing:</b>	Bayblend base, ABS cover
<b>Protection:</b>	IP65, class I
<b>Size:</b>	108 x 70 x 72 mm
<b>Weight:</b>	450 g

### NOTE

The range can be calibrated by tuning carefully the hexagon under the knob (fig. 1).

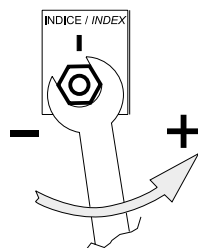
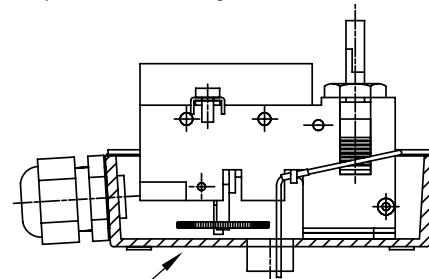


fig. 1

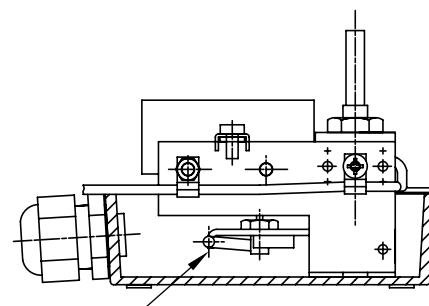
### DIFFERENTIAL ADJUSTMENT

Differential adjustment in the stage



regulation from 2...15 K

Differential adjustment between the stage



regulation from 2...5 K



**WIRING DIAGRAM**

**Single-stage models:**

**Heating**

Connect to red and to blue terminal; the contact opens during the temperature rising (fig. 2).

**Cooling**

Connect to red and to blue terminal; the contact opens during the temperature dropping (fig. 2).

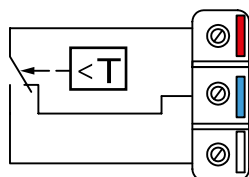
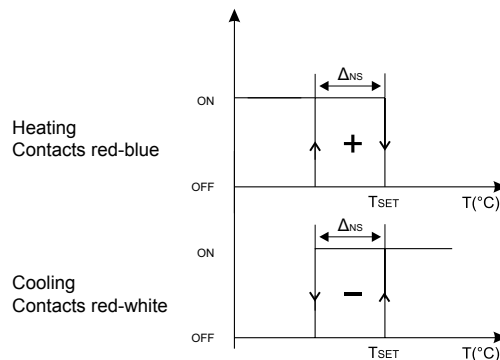


fig. 2

**Logic activation single-stage models:**



$\Delta_{NS}$ : differential in the stage  
 $T_{SET}$ : setting setpoint  
 ON: closed contact  
 OFF: open contact

**Two-stage models:**

**Heating**

Connect to red and to blue terminal; the contact opens during the temperature rising (fig. 3), see logic activation.

**Cooling**

Connect to red and to blue terminal; the contact opens during the temperature dropping (fig. 3), see logic activation.

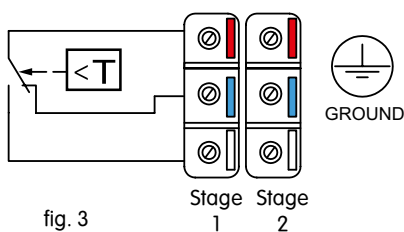
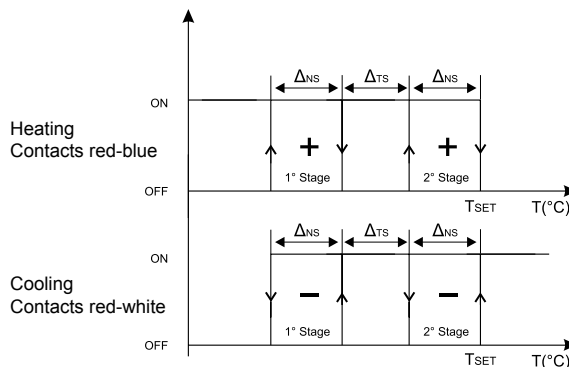


fig. 3

**Logic activation two-stage models:**



$\Delta_{NS}$ : differential in the stage  
 $\Delta_{TS}$ : differential between the stage  
 $T_{SET}$ : setting setpoint  
 ON: closed contact  
 OFF: open contact

**DIMENSIONS (mm)**

