

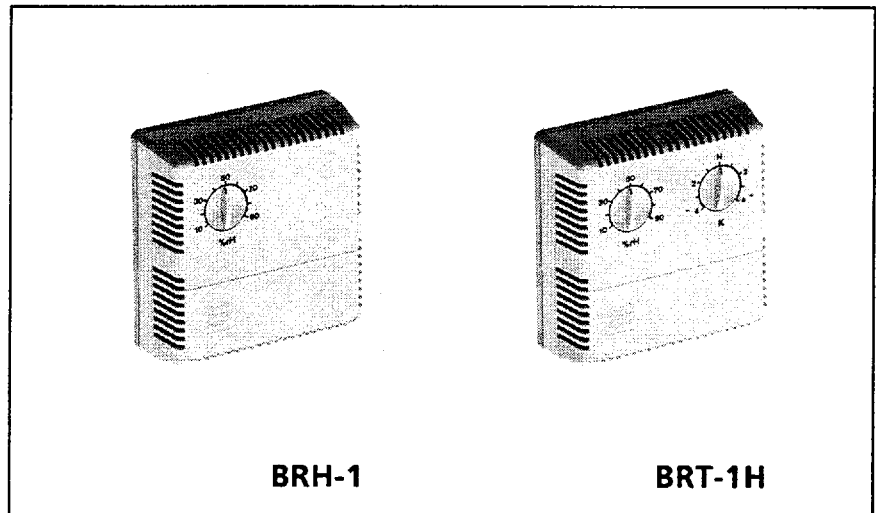
Remote setpoint unit for control of relative humidity (BRH-1)

Remote setpoint unit for control of relative humidity and temperature (BRT-1H)

Application

Remote setpoint units used in conjunction with controllers in the INTEGRAL RS range

- to adjust the humidity setpoint
- to adjust the temperature setpoint



Technical data

Adjustment range:	
- Humidity	10 ... 90 %rH
- Temperature	± 4 K
Supply voltage	15 VDC ± 10 %
Power consumption	15 mW
Output signal	
- Humidity	1 ... 9 VDC
- Temperature	Potentiometer
Accuracy	
- Humidity	± 5 % of full scale
- Temperature	± 0.5 K
Connection:	
- BRH-1	3-wire
- BRT-1H (rH)	3-wire
(Temperature)	2-wire interchangeable
Max. cable length	280 m 1.0 mm ² Cu
	140 m 0.5 mm ² Cu
	(max 5 Ω each conductor)
Protection class	III (⊕)
Protection standard	IP 30 to IEC 529, DIN 40050
Ambient temperature:	
- Operation	0 ... 50 °C
- Storage	-25 ... 70 °C

Principle of operation

The humidity setpoint is adjusted by an active sensor and amplifier providing a 1 ... 9 VDC output signal. The setpoint is scaled in %rH.

The temperature setpoint is adjusted by means of a passive potentiometer.

Construction

The unit is supplied in a standard multi-part plastic housing.
(For description and dimensions, see 1718).

Mounting instructions

The setpoint unit should be mounted at a height of approximately 1.5 m above floor level.

A frame is supplied as an accessory for surface mounting.

Terminal layout

