HCF82
WIRELESS ROOM TEMPRATURE SENSOR

GENERAL

The room temperature sensor HCF 82 measures only the current room temperature and send it to the assigned devices e.g. underfloor heating controller HCE80, Hometronic Manager HCM200D. The HCF82 can be used for different applications heating control, in combination with shutter control and frost protection.

SPECIFICATIONS
ELECTRICAL

Operating Voltage	: With 2 x AAA Alkaline Batteries (included) or external 3 ± 10% voltage, min. current 25 mA

RF Communication

RF band	: 868,3 MHz Transmitter
Receiver class	: 2
RF communication range	: 30m in a residential building environment
RF communication	: short, high rate transmission to
Technology	minimize air time and avoid collissions

ENVIRONMENTAL and STANDARDS

Storage temperature	: -20 … +70 ºC
Operating temperature	: 0 … +40 ºC
Temperature sensing element	**:** NTC 20 kΩ
Dimensions (HxWxD)	: 103 x 99x 30 mm
Humidity	: max. 5 … 93 %
IP class	: IP30
Compatible products	: HCE80, HCE80R, HCC80, HCC80R, HCM200D
Approval	: CE

FEATURES

- **Individual room temperature control. The HCF82 is communicating with the underfloor heating controller e.g. HCE80 to keep the room temperature constant. The room setpoint will be sent e.g. from the CM67z or HCM200D**

- **Simple binding operation to reduce installation time**

- **Battery powered**

- **Remote access to the radiator controller HR 80 with HCM200D. The measured room temperature of the HCF82 will be communicated to the HCM200D and used for the room temperature control with HR80**

- **HCF82 used for room thermostat application with HCM200D. The relays HS20/HS30 are switched ON/OFF depending on the room temperature. The room setpoint is assigned by the HCM200D**

- **Room temperature control combined with the shading function for shutter control with HCM200D**

- **Frost protection. Depending on the measured room temperature the relay modules HS20/HS30 are switched ON/OFF. The HCM200 triggers the boiler request**
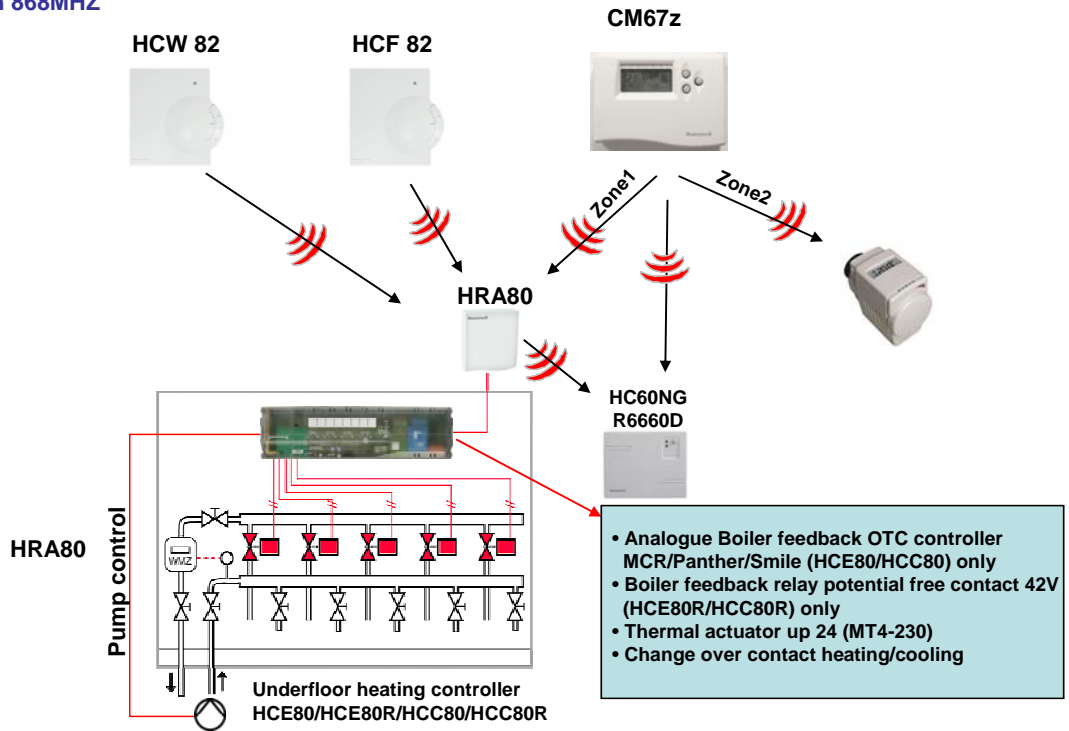
APPLICATION EXAMPLES

Application A

Underfloor heating with and without time program .
The room unit CM67z can control up to 2 zones with individual time program. Only the zone 1 of the CM67z includes the room sensor for zone 2 the HCF82 must be additional allocated for the room temperature measurement to the same zone of the underfloor heating controller. The HCW82 is sending the room temperature and setpoint offset to the allocated zones without time program.
Communication 868,3 MHZ

CM67z

HCF 82

HCW 82

Up to 8 zones

HRA80

Antenna for HCE80 HCE80R

Pump control

Underfloor heating controller HCE80/HCE80R/HCC80/HCC80R
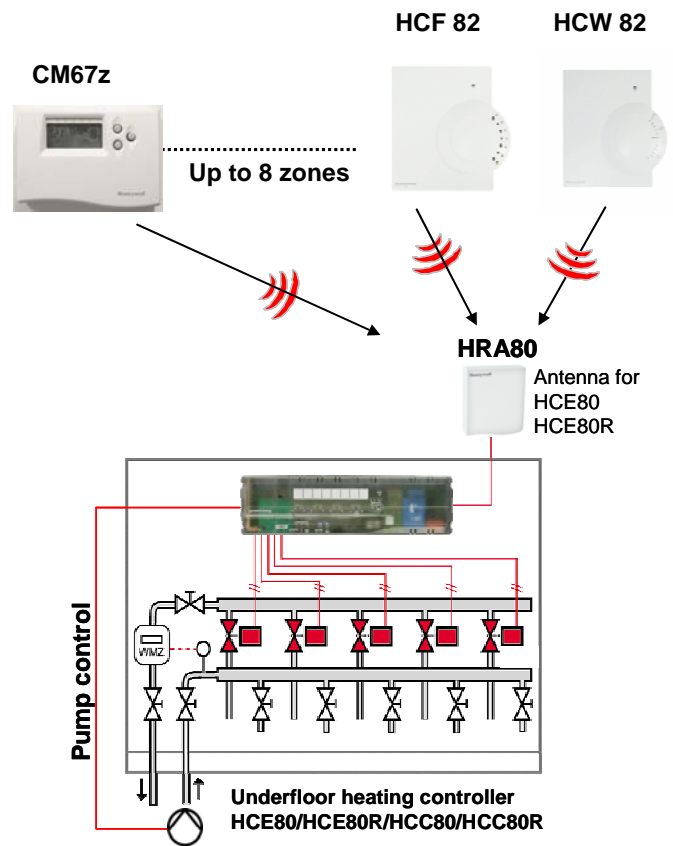
Application B

Underfloor heating and radiator control with CM67z
Zone 1 of the CM67z is allocated to the underfloor controller
and Zone 2 to the radiator controller HR80
Communication 868MHZ

HCW 82　　　**HCF 82**　　　**CM67z**

HRA80

Pump control

HRA80

WMZ

Underfloor heating controller
HCE80/HCE80R/HCC80/HCC80R

HC60NG R6660D

- **Analogue Boiler feedback OTC controller MCR/Panther/Smile (HCE80/HCC80) only**
- **Boiler feedback relay potential free contact 42V (HCE80R/HCC80R) only**
- **Thermal actuator up 24 (MT4-230)**
- **Change over contact heating/cooling**

Zone1　　Zone2

Honeywell

Manufacturing location certified to

DIN EN ISO
9001/14001

CE