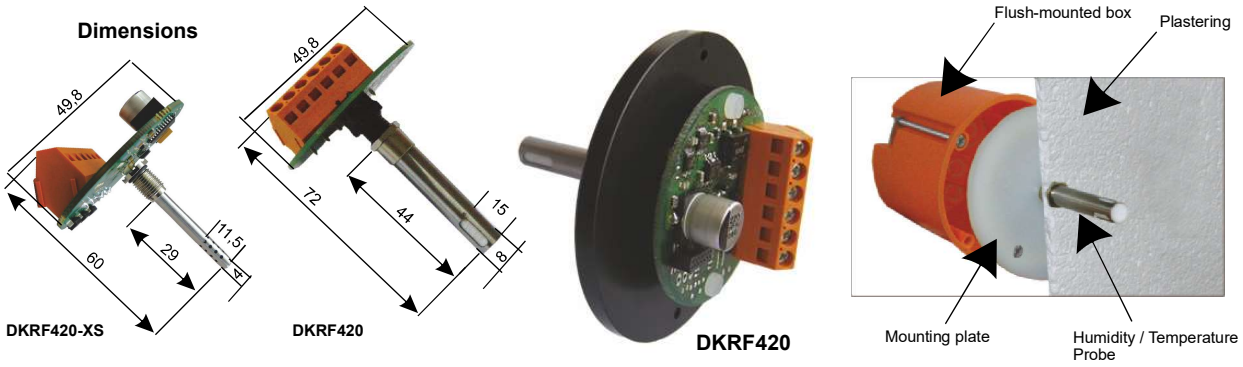
Humidity/Temperature Transducers

DKRF420/420-XS for Flush Mounting

DKRF420
420-XS



Humidity & Temperature Transducer

The DKRF420 and DKRF420-XS are transducers for relative humidity and temperature and come with an analog output. The DKRF420-XS is the smaller and even more inconspicious model.
Their benefits become evident when used in museums and historic buildings as well as representative facilities.

The transducer's electronic components fit completely into the flush-mounted box (required mounting depth: 30 mm). It is covered by a mounting plate and can be plastered leaving only the small stainless steel probe sticking out of the wall.

Exchangeable Probe

The DKRF420 and DKRF420-XS respectively feature a precise sensor which offers long-term stability and a measurement accuracy of ±1.8% and ±0.3°C. It is easy to maintain and can be exchanged or replaced without recalibration or removing the entire transducer.

Specifications

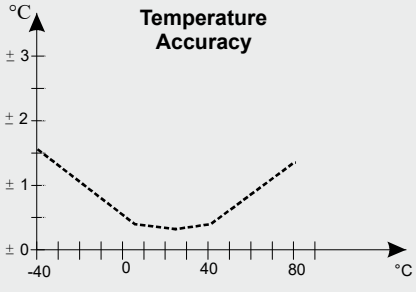
Measuring range:
Relative humidity: 0 ... 100% RH
Temperature: -40 ... +80°C

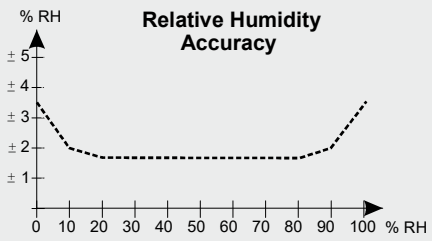
Dimensions: D = 49.8mm, H = 30mm
Mounting plate D = 71mm, H = 4.9mm

Sensor fitting: plug-in type at the front
Sensor type: Digital, calibrated sensor in stainless steel sleeve (d=8mm, l= ca. 35mm)

Supply Voltage/Current Consumption
Output (0...1 V): 3.0...25 VDC, 800 µA
Output (0...5 V): 6.0...25 VDC, 1.5 mA
Output (0...10 V): 11...25 VDC, 1.9 mA
Load for voltage output: > 2 kOhm

Output:
4...20 mA three-wire 11...25 VDC, 2x 22 mA
4...20 mA two-wire 11...25 VDC, max. 2x 20 mA
Max. Load: 500 Ohm
Response time:
1/e (63%): 35 seconds





Order Code

The following order code applies to the DKRF420 Series

DKRF420-AA-KL
DKRF420-XS-AA-KL

AA =Analog output
- 01 = 0...1 VDC
- 05 = 0...5 VDC
- 10 = 0...10 VDC
- 420Z = 4...20 mA two-wire
- 420D = 4...20 mA three-wire

Note: The DKRF420Z and DKRF420D cannot operate with the probe connected directly. Both devices require a sensor cable.

-KL = Cable length
-DC = without cable
-2000 = 2 m cable
-5000 = 5 m cable
-Xxxx = customized

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