InPro-C Temperature/humidity sensor
connectable exclusively to transmitters InCos-D for measuring of temperature and/or humidity

Subject to change!

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<td>Temperature sensor</td>
<td>−40...+125 °C*</td>
<td>50 / 100 / 150 / 200 mm</td>
<td>InCos-D...</td>
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| Sensor length | * at 50 mm length −40...+80 °C |

Product views and applications

InPro-C...

Fig.: Humidity sensors

Sensor for room application

Sensor for duct application

Technical data

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Response time sensor

T90 / 20 s

T90 / 4 s

T90 / 20 s, T90 / 4 s

Accuracy temperature

±0.4 °C at 25 °C ±0.02 °C/°C

Accuracy humidity

±3 % at 10...90 % rH / ±5 % at < 10 % rH and > 90 % rH

Housing protection

IP66 acc. to EN 60529

Material

Adapter Stainless steel Nr. 1.4305, length 50 mm in plastic PEEK-GF30 (max. room temperature +80 °C)

Protection sleeve Stainless steel Nr. 1.4301 / AISI 304

End cap AISI 316

Plug-in connector Zinc die-cast nickel-plated, screw sleeve brass nickel-plated

Filter element humidity sensor Mesh size 100 μm

Ambient temperature / humidity

−40...+125 °C (−40...+80 °C at 50 mm length) / 0...100 % rH

Storage temperature

−40...+125 °C (−40...+80 °C at 50 mm length)

Installation area sensor

Safe areas

Scope of delivery

InPro-C... sensor with plug connector and gasket (EPDM) for duct installation

InPro-C... sensor is a measuring element which is in combination with an ...Cos-D... transmitter for temperature, humidity or combination of temperature and humidity measuring. InPro-C... sensors are only for use with InCos-D... transmitters.

The electromechanical connection is done with a socket on the front resp. on the back side of the transmitter, but only 1 InPro-C... per module is allowed and can be used.

Warning: Aggressive gases can destroy the sensor element.

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Sensor length

* at 50 mm length −40...+80 °C

Accessories

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<tr>
<td>MFK</td>
<td>Mounting flange for duct mounting for variable immersion depth in ducts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKR</td>
<td>Mounting bracket for round ducts up to Ø 600 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH-VA</td>
<td>Immersion sleeve in stainless steel V4A / DIN EN 1.4571, length 120 mm. Other length on request.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kit-FA-VA</td>
<td>Stainless steel sinter filter cap for humidity sensors, pore size 10 μm. Not for high humidity measurements!</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VL3</td>
<td>Sensor extension cable, 3 m, PVC</td>
<td></td>
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Schischek GmbH
Germany, Muehlsteig 45, Gewerbegebiet Sued 5, 90579 Langenzenn, Tel. +49 9101 9081-0, Fax +49 9101 9081-77, E-Mail info-de@schischek.com

www.schischek.com
InPro-C...

**Accuracy temperature and humidity incl. hysteresis**

<table>
<thead>
<tr>
<th>Accuracy temperature</th>
<th>Accuracy humidity + hysteresis</th>
</tr>
</thead>
</table>
| ±2.0  
0  
40  
80  
120 °C | ±5.0  
0  
20  
40  
60  
80  
100  
% rF |

**Max. Medium temperature (surface temperature)**

Max. medium temperature  
125 °C (for sensor length 100–200 mm)  
80 °C (for sensor length 50 mm)

**Important information for installation and operation**

A. InPro-C... sensor
The power for InPro-C... sensor is supplied with the transmitter’s circuit. Unused sensor entries have to be closed with the black caps.

B. Temperature flow
When measuring temperature over the max. allowed environmental temperature of the transmitter of +50 °C regard that no temperature flow over the sensor takes place.

The mounting of the sensor has to ensure that errors due to heat dissipation are within the tolerance limits and the max. allowed environmental temperature is not exceeded.

C. Mounting
Screw the sensor into the socket of the transmitter. The sensor cannot be opened as parts of the element are moulded. A small distance tolerance between transmitter and sensor has to be accepted due to production conditions.

**Electric characteristics (max.)**

U ≤ 5 V  
I < 0.5 mA

**Mounting room sensor (at terminal box side)**

For mounting the sensor must be plugged into the socket and screwed on the sensor by turning the lower knurled screw clockwise. Tighten hand-screwed only. A small clearance between transmitter and sensor has to be accepted due to production conditions.

**Mounting duct sensor (back side)**

For mounting the sensor must be plugged into the socket and screwed on the sensor by turning the lower knurled screw clockwise. Tighten hand-screwed only. A small clearance between transmitter and sensor has to be accepted due to production conditions.

**MFK mounting flange for duct installation**

The flange is to be moved over the sensor and fixed with the adjusting screw on the side. The flange can be mounted with 4 screws directly to the duct.

**Dimensions [mm]**

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<tr>
<th>Dimensions</th>
<th>End cap</th>
<th>Protection sleeve</th>
<th>Adapter</th>
<th>Plug-in connector with screw sleeve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 12</td>
<td>150</td>
<td>100</td>
<td>50</td>
<td>15</td>
</tr>
<tr>
<td>23</td>
<td>202</td>
<td>190</td>
<td>15</td>
<td></td>
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InPro-C... -50 ...-100 ...-150 ...-200

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