



ExPro-C... Digital Temperature-/Humidity Probe

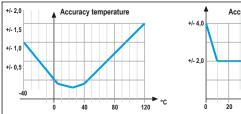
Explosion proof digital probe exclusively connectable to ExCos-D / RedCos-D transducer for temperature and/or humidity measuring PTB-certified acc. to ATEX directive 94/9/EC for Zone 1, 2, 21, 22.

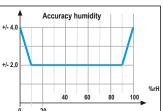
| ExPro - CT |
|-------------|
| ExPro - CF |
| ExPro - CTF |
| ExPro - CTF |

Subject to change!

| Type/Probe | Function | Range | Sensor length | Applicable to transducer | Hazardous area |
|-----------------------------------|-------------------|------------------------------------|-----------------------------|-------------------------------|--|
| ExPro - CT | Temperature Probe | -40+125 °C* | 50/100/150/200 mm | ExCos-D, RedCos-D | Zone 1, 2, 21, 22 |
| ExPro - CF | Humidity Probe | 0100 % rH | 50/100/150/200 mm | ExCos-D, RedCos-D | Zone 1, 2, 21, 22 |
| ExPro - CTF | Combi Probe | -40+125 °C*/ 0100 % r | H 50/100/150/200 mm | ExCos-D, RedCos-D | Zone 1, 2, 21, 22 |
| ţ | | * at 50 mm length -40 +80 ° | °C Sensor length | | |
| Application | | | | | |
| ExPro-C. sensor | s Appli | ication room | Application duct | Accessory cable extension VL3 | |
| | | | | | Ex |
| Technical dat | ta E | xPro-CT | ExPro-CF | ExPro-CTI | |
| Application for Measuring Rang | | emperature probe 40 °C +125 °C | Humidity probe 0100 % rH | • | temperature and humidity 25 °C / 0…100 % rH |

| Measuring Range | −40 °C +125 °C | 0100 % rH | –40 °C +125 °C / 0100 % rH | |
|--------------------------------------|---|------------------------------------|----------------------------|--|
| Sensor type and length | ExPro-CT- 50 = 50 mm | ExPro-CF- 50 = 50 mm | ExPro-CTF- 50 = 50 mm | |
| | ExPro-CT-100 = 100 mm | ExPro-CF-100 = 100 mm | ExPro-CTF-100 = 100 mm | |
| | ExPro-CT-150 = 150 mm | ExPro-CF-150 = 150 mm | ExPro-CTF-150 = 150 mm | |
| | ExPro-CT-200 = 200 mm | ExPro-CF-200 = 200 mm | ExPro-CTF-200 = 200 mm | |
| Response time | T90 / 20 s | T90 / 4 s | T90 / 20 s, T90 / 4 s | |
| Accuracy Temperature | ± 0,3 °C at 25 °C ± 0,025 °C/°C + transducer | | | |
| Accuracy Humidity | ± 2 % at 1090 % rH, ± 4% at < 10 % rH and > 90 % rH + transducer | | | |
| Hysteresis | ±1% | | | |
| Protection class | IP66 acc. to IEC 60529 | | | |
| Material thermowell, protection tube | Stainless steel 1.4305, at length 50 mm in plastic max. temperature 80°C (room temperature) | | | |
| Filter element | at humidity probe with plastic filter element pore size 100 μ m | | | |
| Ambient temperature/-humidity | –40+125 °C / 0100 % rH | | | |
| Storage temperature | −40+125 °C | | | |
| Delivery | 1 ExPro-C probe with fast connection and g | asket (EPDM) for duct installation | | |
| Installation area probe | in Ex-area zone 1, 2, 21, 22 | | | |
| | | | | |





Medium temperature

| Temperature class | T6 | T5 | T4 | Т3 | T2 | T1 | |
|---|----|----|-----|-----|-----|-----|--|
| Medium temperature max [°C] | 59 | 74 | 109 | 125 | 125 | 125 | |
| The correlation of max. medium temperature and temperature class as well as the surface temperature is shown in table above. | | | | | | | |

Accessories

| MFK | Flange for duct mounting, for variable depth of immersion in ducts |
|-------|---|
| TH-VA | Immersion sleeve stainless steel V4A 1.4571, length 120 mm. other length on request |
| FA-VA | Filter element stainless steel, pore size 10µm not for high humidity! |
| MKR | Mounting bracket for duct Ø 600 mm |
| VL3 | Cable extension 3 m, PVC |
| | |

Values intrinsically safe

| Ui = | 7,9 V | Ci = 0 |
|------|---------|--------|
| li = | 48 mA | Li = 0 |
| Pi = | 95 m\// | |

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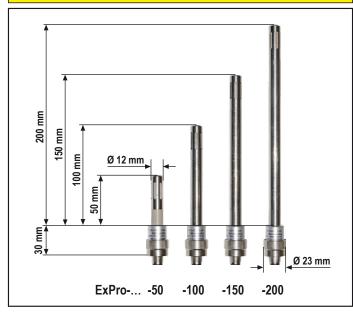




What is a ExPro-C... probe?

A ExPro-C... probe is a sensor head resp. measuring element which is in combination with a ExCos-D transducer for temperature-, humidity or combi temperature/humidity measuring. ExPro-C... probes are only for use with **ExCos-D**... transducer. The connection should be done with a socket on the front resp. on the back side of the transducer but only 1 ExPro-C... module can be used.

Dimensions



Mounting flange (MFK) for duct installation

The flange is moved over the probe and fix it with the side wise adjusting screw. The flange can be mounted with the 4 screws direct to the duct.



Important informations for installation and use

A. ExPro-C... Probe

The power of the ExPro-C.. probe is supplied via an instrinsically safe (IS) circuit from the ExCos-D. Unused probe-entries at the ExCos-D have to be closed with the black caps.

B. Temperature-flow

In case of temperature measuring over the max. allowed environmental temperature of 50 °C of the transducer, it has to be watched, that no temperature flow over the probe takes place. The mounting of the probe has to make sure, that mistakes due to heat-dissipation are within the tolerance-limits and the max. allowed environment temperature is not exceeded.

C. Mounting

The probe is being srewed into the socket of the ExCos-D. The probe cannot be opened, as parts of the element are moulded. A small distance tolerance between ExCos-D (transducer) and ExPro-C... (probe) has to be accepted due to production conditions.

Mounting duct probe (back side ...Cos-D)





For mounting the probe plug the socket and screw on the sensor by turning the lower knurled thumb clock wise. Just screw hand tight. A small clearance between ExCos-D (transducer) and ExPro-C... (probe) has to be accepted due to production conditions.

Mounting room probe (terminal box side ...Cos-D)





For mounting the probe plug the socket and screw on the sensor by turning the lower knurled thumb clock wise. Just screw hand tight. A small clearance between ExCos-D (transducer) and ExPro-C... (probe) has to be accepted due to production conditions.

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