EXCOS-D TEMPERATURE / HUMIDITY TRANSMITTER

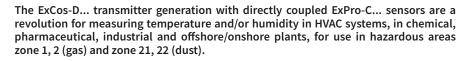
Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)





Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

All sensors are programmable on site without any additional tools. The measuring ranges are scalable within the maximum ranges. The analogue output signal is either 0...10 VDC or (0)4...20 mA and can be selected on site.

The integrated display (can be switched off as needed) is for parametrisation and an actual value indication at working mode.



- No addional Ex-i module required
- Integrated Ex-e terminal box
- Power supply 24 VAC/DC
- Scalable analogue output, selectable 0...10 V / (0)4...20 mA
- Display with backlight, can be switched off
- Password locking



ExCos-D TEMPERATURE/HUMIDITY MODULE FOR ZONE 1, 2, 21, 22						
Type:	Technical specifications:	Module:	ExPro sensor:	Item No.:		
ExCos-D	Module to connect 1 ExPro-C sensor for temperature and/or humidity	Zone 1, 2, 21, 22	Zone 1, 2, 21, 22	9A0501		

SENSORS FOR ExCos-D AND RedCos-D TRANSMITTER						
Туре:	Function:	Range:	Sensor length:	Main use:		
ExPro-CT - 50	Temperature sensor	-40 to +80 °C	50 mm	Room/Duct		
ExPro-CT -100	Temperature sensor	-40 to +125 °C	100 mm	Duct		
ExPro-CT -150	Temperature sensor	-40 to +125 °C	150 mm	Duct		
ExPro-CT -200	Temperature sensor	-40 to +125 °C	200 mm	Duct		
ExPro-CF - 50	Humidity sensor	0100%rF	50 mm	Room/Duct		
ExPro-CF -100	Humidity sensor	0100%rF	100 mm	Duct		
ExPro-CF -150	Humidity sensor	0100%rF	150 mm	Duct		
ExPro-CF -200	Humidity sensor	0100%rF	200 mm	Duct		
ExPro-CTF - 50	Combination temperature/humidity	-40 to +80 °C, 0100%rH	50 mm	Room/Duct		
ExPro-CTF -100	Combination temperature/humidity	-40 to +125 °C, 0100%rH	100 mm	Duct		
ExPro-CTF -150	Combination temperature/humidity	-40 to +125 °C, 0100%rH	150 mm	Duct		
ExPro-CTF -200	Combination temperature/humidity	-40 to +125 °C, 0100%rH	200 mm	Duct		

ACCESSORIES AND SPECIAL DESIGNS			
Type:	Technical specifications:		
Ex/RedCos-D-A	Version with two additional intrinsically safe circuit (0)420 mA outputs to connect external actual value indicator in Ex areas		
EXC-RIA-16	Intrinsic safe actual value LCD indicator, for use in zone 1,2,21,22, connectable to ExCos-D-A or RedCos-D-A transmitter		
NOC-RIA-16	Actual value LCD indicator, for use in safe area, connectable to InCos-D-A transmitter		
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)		
VL3	Sensor extension cable 3 m		

	TECHNICAL SPECIFICATIONS
Marking:	2(1)G Ex e ma [ia Ga] C T6T4 Gb 1 2(1)D Ex tb [ia Da] IIC T80°CT130°C Db P66
Certificate:	EU-Type Examination Certificate
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz
Current power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable
Galvanic isolation:	Supply for analogue in- and outputs min. 1,5 kV, supply for relay output min. 1,5 kV
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²
Display / Control elements:	2 × 16 digits, dot-matrix display, backlit, for configuration, user guidance, parameter and actual value indication / 3 buttons for configuration
Housing:	Aluminium die-cast housing, coated. / T6 (T80 °C) a –20+50 °C
Ambient Temperature - Humidity:	−20+50 °C, storage temperature −35+70 °C / 095 % rH, non condensing
Sensor connection:	For ExPro-C sensor only! Via plug and socket connection at front side (for room mounting) or at back side (for duct mounting). Attention: Only 1 ExPro-C sensor per transmitter can be connected!
Measuring ranges adjustable:	Measuring ranges are scalable within and limited by the maximum sensor measuring range
Response time of sensor:	T90 / ~ 1 s
Start delay:	5 s
Stability:	Long term stability < 0,2 %/year, temperature influence < 0,02 %/K, supply voltage influence < 0,01 %
Output:	Voltage U [V] or current I [mA] selectable via menu on site (with combi sensors not adjustable separately), protected against short circuit and external voltage up to 24 V, protected against polarity reversal
Voltage output U:	010 V adjustable, invertible, burden > 1 kΩ, influence < 0,05 %/100 Ω + accuracy ofPro-C sensor
Current output I:	020 mA adjustable, invertible, burden < 500 Ω , influence < 0,1 %/100 Ω , open circuit voltage < 24 V + accuracy ofPro-C sensor
Output in alarm mode:	Increasing or decreasing output signal, selectable on site, down to 0 VDC/0 mA or up to 10 VDC/20 mA
Scope of delivery:	Transmitter, 3 self-tapping screws 4,2 × 13 mm resp. in stainless steel (withCT andVA versions)
Parameter at delivery:	Output 420 mA, output in alarm mode decreasing to 0 V/0 mA
Dimensions:	180 × 107 × 66 mm
Weight:	~ 950 g
Cable entries:	2 × M16 × 1,5 mm, Ex-e approved, for cable diameter ~ Ø 59 mm

