

# **SIPATEC TR.Ex Analog Transducer Instruction Manual**

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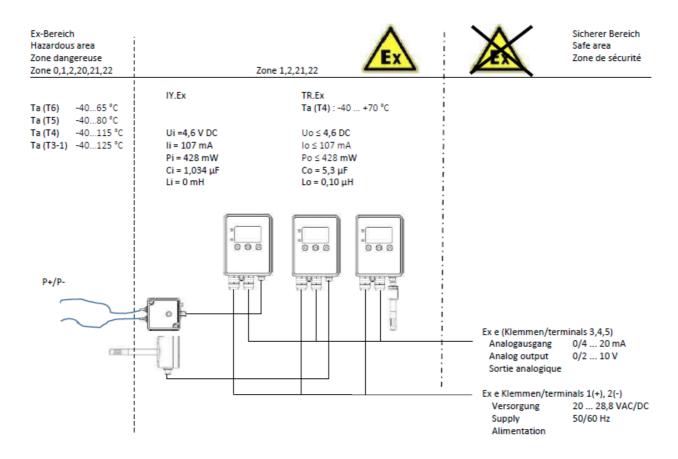
**SIPATEC TR.Ex Analog Transducer Instruction** 



- · ATEX / IECEx certified for Gases and Dusts
- Measurement in Zone 0/20
- Direct power supply without zener barrier
- · Easy plug-in mounting
- · Quick and safe installation
- Junction box Ex e integrated
- · No variants only one basic unit
- Enhanced temperature range -40 ... +70 °C
- Degree of protection IP66
- Analog outputs switchable between mA and V
- Outputs calibrated and scaled
- Integrated display
- Onsite parameterization
- · LED status indication
- Low power input <3 W
- Cable length from the transducer to the sensor up to 100 m
- Highly resistant against corrosion by use of high-tech polymer and stainless steel



## **Safety Notes**



- Install in accordance with manufacturer's instructions and valid standards and rules.
- · Unlocking the device or opening the terminal box is only permitted with the power off.
- When installing the unit, make sure that the housing protection type IP66 is maintained in accordance with EN 60529.
- This equipment can be used according to manufacturers' instructions in Zone 1, 21 (II 2GD) and 22. (II 3GD).
- The sensor circuit can be introduced into the zone 0 (II 1G). Corresponds to the designation II 2 (1) G.
- The device may only be used in measurement media, against which the process-contacting materials are resistant.
- The unit must be connected to the potential equalization (PA), an internal and external terminal is available.
- The unit must be protected against mechanical impact/pressure and UV light.

## **Technical Data**

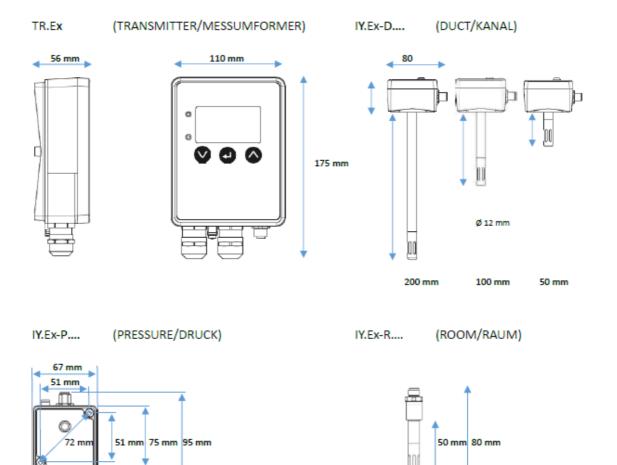
TR.Ex TF			
SUPPLY			
Voltage		20-28,8	V AC/DC
Frequency		50 - 60	Hz
Power input/consump	tion	3/5	W/VA
Protection class / over OUTPUTS	voltage category / pullution degree	III / 2 / III	insulated
Voltage / current selec	table	0-10/0-20	V DC / mA
Accuracy	table	0.1	% FS
Influence of temperati	IFA	< 0.01	%/K
Effect of load	ne -	0,1/100	%/Ohm
DISPLAY / BUTTON / LED		0,1/100	Ayonin
LCD, backlight		128 x 64	pixel
Micro push button		>1 Mio.	cycles
LED red / green		Status indication	cycles
HOUSING		Status indication	
High Tech Polymer		halogen-, silicon-, PVC	free
		On- and Offshore	With high salinity
Corrosion durability Ingreased protection		IP66	vvicii nign saimity
		1200	
GENERAL Terminal cross section		000 35	mm without end sleeve
Terminal cross-section		0,08 – 2,5	
ATEX/IECEX Ex e	Ov1 5 ATEV/IECEV EV a	0,25 - 1,5 6 - 13	mm with end sleeve Ø mm
Cable connections M2	DAT, D MIEN/IEUEX EX E		•
Dimensions H x W x D		175 x 110 x 56 800	mm
Weight		800	g
MATERIALS		sold was a sub-	alanta de dia
Housing		High Tech Polymer	electrostatically conductive
Front plate, Screws		Stainless steel	
Seals		EPDM	
Cable connection, Sen: APPLICATION	sor connection M12	brass plated	
	temperature	-40 +70	°c
Ambient- and storage Humidity, without con Mountion position, alt	densation itude any,	-40 +70 0 100 recommendation vertical, < 2000 m	°C 96rH
Ambient- and storage Humidity, without con Mountion position, alt IY.EX -P D	densation itude any, IFFERENTIAL PRESSURE / VOLU	0 100 recommendation vertical, < 2000 m	
Ambient- and storage Humidity, without con Mountion position, alt	densation itude any, IFFERENTIAL PRESSURE / VOLU	0 100 recommendation vertical, < 2000 m	
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Ambient- and storage Humidity, without con Mountion position, alt IY.Ex -P DI TYPES AND MEASUREME IY.Ex.P-0100 IY.Ex.P-0600 IY.Ex.P-0600 IY.Ex.P-1000	densation itude any, IFFERENTIAL PRESSURE / VOLU	0 100 recommendation vertical, < 2000 m  JME FLOW  -100 – 100 -250 – 250 -600 – 600 -1000 – 1000	96rH Pa Pa Pa Pa
Ambient- and storage Humidity, without con Mountion position, alt IY.Ex -P D TYPES AND MEASUREME IY.Ex-P-0100 IY.Ex-P-0500 IY.Ex-P-0500 IY.Ex-P-2500 ACCURACY	densation itude any, IFFERENTIAL PRESSURE / VOLU	0 100 recommendation vertical, < 2000 m  JME FLOW  -100 – 100 -250 – 250 -600 – 600 -1000 – 1000	96rH Pa Pa Pa Pa Pa
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Ambient- and storage Humidity, without con Mountion position, alt IY.Ex -P DI TYPES AND MEASUREME IY.Ex-P-0100 IY.Ex-P-0250 IY.Ex-P-0600 IY.Ex-P-1000 IY.Ex-P-2500 ACCURACY Accuracy "total" 100 / Accuracy "total" 100 / Accuracy "typical" Long term stability 1.0 MTTF (Sensor) Sampling rate	densation itude any,  IFFERENTIAL PRESSURE / VOLU INT RANGE  250 / 600 / 1.000 / 2.500 Pa	0 100 recommendation vertical, < 2000 m  JME FLOW  -100 - 100 -250 - 250 -600 - 600 -1000 - 1000 -2500 - 2500  2,0 / 2,0 / 1,5 / 1,0 / 1,0 < 0,5 0,5 4,611.965	96rH Pa Pa Pa Pa Pa Pa F5 % F5 % F5
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Ambient- and storage Humidity, without con Mountion position, alt IY.EX -P DI TYPES AND MEASUREME IY.Ex-P-0100 IY.Ex-P-0250 IY.Ex-P-0600 IY.Ex-P-1000 IY.Ex-P	densation itude any,  IFFERENTIAL PRESSURE / VOLU INT RANGE  250 / 600 / 1.000 / 2.500 Pa	0 100 recommendation vertical, < 2000 m  JME FLOW  -100 - 100 -250 - 250 -600 - 600 -1000 - 1000 -2500 - 2500  2,0 / 2,0 / 1,5 / 1,0 / 1,0 < 0,5 0,5 4.611.965 0,1  4,6 0,107 0,428 1,034 0	Pa Pa Pa Pa Pa Pa V A W  µH
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Ambient- and storage Humidity, without con Mountion position, alt IY.EX -P DI TYPES AND MEASUREME IY.EX-P-0100 IY.EX-P-0250 IY.EX-P-0600 IY.EX-P-1000 IY.EX-P-1000 IY.EX-P-2500 ACCURACY Accuracy "total" 100 / Accuracy "typical" Long term stability 1.0 MTTF (Sensor) Sampling rate SUPPLY Ex i Voltage Ui Current li Power Pi Capacitance Ci Inductance Li HOUSING High Tech Polymer Corrosion resistance MATERIALS Housing	densation itude any,  IFFERENTIAL PRESSURE / VOLU INT RANGE  250 / 600 / 1.000 / 2.500 Pa	0 100 recommendation vertical, < 2000 m  JME FLOW  -100 - 100 -250 - 250 -600 - 600 -1000 - 1000 -2500 - 2500  2,0 / 2,0 / 1,5 / 1,0 / 1,0 < 0,5 0,5 4.611.965 0,1  4,6 0,107 0,428 1,034 0  halogen-, silicon-, PVC On- and Offshore  High Tech Polymer	Pa Pa Pa Pa Pa Pa Pa Pa Vith high salinity
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Ambient- and storage Humidity, without con Mountion position, alt IY.Ex -P Di TYPES AND MEASUREME IY.Ex-P-0100 IY.Ex-P-0100 IY.Ex-P-0500 IY.Ex-P-0500 IY.Ex-P-0500 IY.Ex-P-1000 IY.Ex-P	densation itude any,  FFERENTIAL PRESSURE / VOLU  NT RANGE  250 / 600 / 1.000 / 2.500 Pa  00 h / 25 °C	0 100 recommendation vertical, < 2000 m  JME FLOW  -100 - 100 -250 - 250 -600 - 600 -1000 - 1000 -2500 - 2500  2,0 / 2,0 / 1,5 / 1,0 / 1,0 < 0,5 0,5 4.611.965 0,1  4,6 0,107 0,428 1,034 0  halogen-, silicon-, PVC On- and Offshore  High Tech Polymer Stainless steel EPDM brass plated	Pa Pa Pa Pa Pa Pa Pa V FS FS W A W  µF µH  free With high salinity electrostatically conductive

IY.Ex -RT /	RTH TEMPERATURE / TEMPERA	TURE HUMIDITY DEW POINT	(Room)
TYPES AND MEAS	UREMENT RANGE		
IY.Ex-RT	Room Temperature feeler/probe	-40 +125	°c
IY.Ex-RTH	Room Temperature-humidity feeler/probe	-40 +125 / 0 100	°C / %RH
ACCURACY			
Accuracy temper	erature @.0 60 °C	< 0,5	°c
Accuracy temperature @40 0, @ 60 125 °C		< 0,5 °C + 0,03°C/K	°C/K
Accuracy humio	fity	2,0	% FS
Hysteresis		1,0	%
Long term stabi	ility 1.000 h / 25 °C	0,5	%
MTTF (Sensor)		9.312.507	h
Sampling rate		0,2	s
SUPPLY EX I			
Voltage	Ui	4,6	V
Current	li	0,107	A
Power	Pi	0,428	W
Capacitance	Ci	0,33	μЕ
Inductance	Li	0	μн
MATERIALS			
Thermowell, en	d cap	Stainless Steel	
Seals		EPDM	
Sensor connect	ion M12	brass plated	
Weigth		100	g
APPLICATION			
Ambient-, storage temperature		-40 +125	°c
Humidity, without condensation		0 100	%RH
Mounting posit	ion	Any, recommendation vertical	

IY.Ex -DT/	DTH TEMPERATURE / TEMPERATURE	ATURE HUMIDITY DEW POINT	(Duct)	
TYPES AND MEASU	JREMENT RANGE			
IY.Ex-DT-50	Duct Temperature Probe 50 mm	-40 - 125	°c	
IY.Ex-DT-100	Duct Temperature Probe 100 mm	-40 - 125	°C	
IY.Ex-DT-200	Duct Temperature Probe 200 mm	-40 – 125	•	
IY.Ex-DTH-50	Duct Temperature Humidity Probe 50 mm	-40 - 125 / 0 - 100	°C / %Ri	
IY.Ex-DTH-100	Duct Temperature Humidity Probe 100 mm	-40 - 125 / 0 - 100	°C / %RH	
IY.Ex-DTH-200	Duct Temperature Humidity Probe 200 mm	-40 - 125 / 0 - 100	°C / %RH	
ACCURACY				
Accuracy tempe	rature max.	< 0,5	°c	
Accuracy tempe	rature @40 0, @ 60 125 °C	< 0,5 °C + 0,03°C/K	°C/K	
Accuracy humidi	ity total error band	2,0	% FS	
Hysteresis		1,0	96	
Long term stabil	ity 1.000 h / 25 °C	0,5	%	
MTTF (Sensor)		9.312.507	h	
Sampling rate		0,2	S	
SUPPLY Ex i				
Voltage	Ui	4,6	V	
Current	li	0,107	A	
Power	Pi	0,428	w	
Capacitance	Ci	1,034	μF	
Inductance	Li	0	μН	
HOUSING				
High Tech Polym	er	halogen-, silicon-, PVC	free	
Corrosion resista	ance	On- and Offshore	With high salinity	
MATERIALS				
Housing		High Tech Polymer	electrostatically conductive	
Front plate, Scre	ws	Stainless steel		
Seals		EPDM		
tube connection		brass plated		
Weigth		l = 50 mm / 460	g	
		l = 100 mm / 500	g	
		I = 200 mm / 540		
APPLICATION			•	
Ambient-, storag	ge temperature	-40 +125	°c	
Humidity, witho	ut condensation	0 100	%RH	
Mounting position	on	any, recommendation vertical		

Certificates					
TR.EX	ATEX	EPS 14 ATEX 1 789 X	II2(1)G	Ex eb mb ib [ia Ga] IIC	T4 Gb
	IECEX	IECEX EPS 14.0101X	II2(1)D	Ex tb [ia Da] IIIC T130	°C Db
IY.Ex	ATEX	EPS 14 ATEX 1 789 X	II1/2G	Ex ia IIC T6/T5/T4	Ga/Gb
	IECEX	IECEX EPS 14.0101X	II1/2D	Ex ia IIIC T130 °C	Da/Db

# **Dimension**

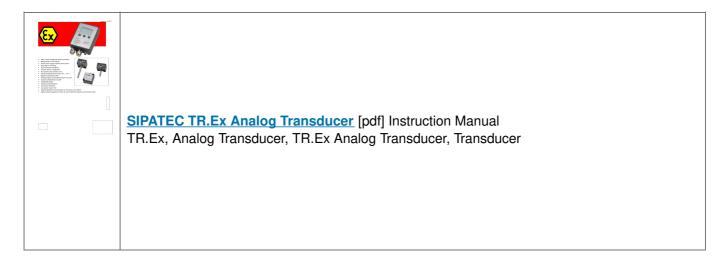


Ø 12 mm

# www.jetec.com.tw

## **Documents / Resources**

2 x Ø 6 mm



## References

- . .
- Opi safety components I Explosionsschutz petz industries GmbH&Co.KG

Manuals+,