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ABOUT TECSENSE

- Austrian-based specialist in precision gas analysis (O₂ / CO₂)
- 20+ years of expertise in O₂ and MAP measurement for beverage testing and food safety
- Mission: Deliver accurate, portable and affordable testing solutions
- Specialist in optical sensors
- Manufactured 100% in-house
- Patents are 100% owned





INTRODUCING TECSENSE TecMICRO



Inline/online Oxygen in Gas analyser models:

- TecMicro GasTrace – Oxygen in gas medium
- Optional – Display Unit
- Connection options: Varivent, Trip Clamp, T Piece

Designed for simplicity, and rapid real time measurement and flexible communication

High accuracy

Lab-grade precision inline probe

Fast response

Real-time results in seconds

Easy to integrate

Communication into any PLC, HMI, LIMS or QMS

Low maintenance

Long sensor lifetime & low consumables

Multi-application

Food & beverage, pharmaceutical, welding,

TECHNICAL SPECIFICATIONS

TS-System	TecMicro Gas Trace		TecMicro Gas Low		TecMicro Gas Medium		TecMicro Gas High	
Measurement range	0-2000 ppm		0,0-5%		0,0-22%		0,0-100%	
	Range	Accuracy	Range	Accuracy	Range	Accuracy	Range	Accuracy
	0-100ppm	± 2% Mev**	0-0,5%	± 2% Mev**	0-5%	± 2% Mev**	0-5%	± 3% Mev**
	100-1000ppm	±3% Mv*	0,5-2,5%	±3% Mv*	5-15%	±3% Mv*	5-22%	± 4% Mv*
	1000-2000ppm	± 4% Mv*	2,5-5%	±5% Mv*	15-22%	± 3% Mv*	22-100%	± 5% Mv*
Resolution	1 ppm		0,001%		0,001%		0,001%	
Response time at 26°C/77°F	<15s		5s		5s		5s	
Max. Pressure	5bar		5bar		5bar		5bar	
Temp. Range Min./Max	-10°C/ +60°C		-10°C/ +60°C		-10°C/ +60°C		-10°C/ +60°C	
	14°F/140°F		14°F/140°F		14°F/140°F		14°F/140°F	
Average lifetime LED	min. 10.000h		min. 10.000h		min. 10.000h		min. 10.000h	
Power supply	5V DC		5V DC		5V DC		5V DC	
Data Interface	RS232 / USB / RS485		RS232 / USB / RS485		RS232 / USB / RS485		RS232 / USB / RS485	
Temperature compensation	4 - 40°C or 39,2 - 104°F		4 - 40°C or 39,2 - 104°F		4 - 40°C or 39,2 - 104°F		4 - 40°C or 39,2 - 104°F	
Pressure compensation	STP by default. Changed in software.		STP by default. Changed in software.		STP by default. Changed in software.		STP by default. Changed in software.	
Data Output	digital		digital		digital		digital	
Cleaning	No org. Solvents, 40% EtOH		No org. Solvents, 40% EtOH		No org. Solvents, 40% EtOH		No org. Solvents, 40% EtOH	
Parts touching sample	St.1.4404/ PTFE/ Glass		St.1.4404/ PTFE/ Glass		St.1.4404/ PTFE/ Glass		St.1.4404/ PTFE/ Glass	
Protection	IP65		IP65		IP65		IP65	
Guaranteed lifetime of sensor cap C9 ¹	12 months							
Lifetime sensor cap C3/6/10 ¹			12 months		12 months		12 months	
Main service interval ²	3 years		3 years		3 years		3 years	
Sensor cap replacement interval	12 months or TecService Command		12 months or TecService Command		12 months or TecService Command		12 months or TecService Command	
Expected lifetime of cap ³	1 year		2 year		2 year		2 year	
Recommended 0-point adjustment	3 months		3 months		3 months		3 months	
Warranty	1-year ex works Grambach		1-year ex works Grambach		1-year ex works Grambach		1-year ex works Grambach	