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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 Dissolved Oxygen analyser models:

- **TecMicro Fluids**– Dissolved Oxygen in liquids
- 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 Fluid Trace		TecMicro Fluid Low		TecMicro Fluid Med.		TecMicro Fluid High	
Measurement range	0-200 ppb		0-2000ppb		0,0 - 10mg/L		0,0 - 40 mg/L	
	Range	Accuracy	Range	Accuracy	Range	Accuracy	Range	Accuracy
	0-200 ppb	± 3% MW*	0-200 ppb	± 2% MEW**	0-2 mg/L	± 2% MEW**	0-2 mg/L	± 2% MEW*
			200-1000 ppb	±3% MW*	2-8 mg/L	±3% MW*	2-8 mg/L	±3% MW*
			1000-2000 ppb	±5% MW*	8-10 mg/L	± 5% MW*	8-10 mg/L	± 3% MW*
							10-40 mg/L	± 5% MW*
Resolution	1 ppb		1 ppb		0,001 mg/L		0,001 mg/L	
Response time at 26°C/77°F	<20s		<20s		<20s		<20s	
Max. Pressure	20bar		20bar		20bar		20bar	
Temp. Range	-10°C/ +60°C		-10°C/ +60°C		-10°C/ +60°C		-10°C/ +60°C	
Min./Max	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. digital		STP by default. Changed in software. digital		STP by default. Changed in software. digital		STP by default. Changed in software. digital	
Data Output	digital		digital		digital		digital	
Cleaning	No org. Solvents, 40% EtOH, CIP, SIP		No org. Solvents, 40% EtOH, CIP, SIP		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	
Lifetime Sensor cap C5 ¹	6 months		6 months					
Lifetime sensor cap C3/6/10 ²					12 months		12 months	
Main service interval ³	3 years		3 years		3 years		3 years	
Sensor cap replacement interval	6 months or TecService Command		6 months or TecService Command		12 months or TecService Command		12 months or TecService Command	
Expected lifetime of cap ⁴	1 year		1 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	

