TecSense
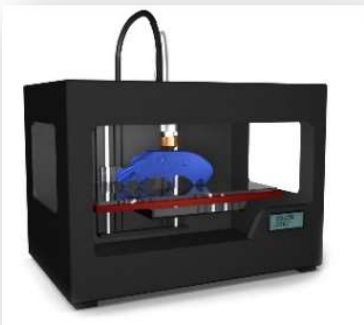*unique solutions in sensor technology*

TecPen Weld O₂

Optochemical O2 sensor system for gaseous media

- Optochemical O_2 sensor system for gaseous media
- Monitoring of oxygen concentration in forming gases
- Ensuring the highest quality welding seams by avoiding oxidation
- High flexibility due to handy design
- Easy to use due to factory calibration and built-in display
- Immediate operational readiness, without warm-up time
- High measuring accuracy
- Integrated memory & data transfer via USB
- Replaceable particulate filter

Advantages for the user are the low weight, the immediate availability for measurements, simple handling and the application-related storage of the data, which are thus digitally available for quality assurance.

The advantage for companies is a comprehensive and documented QC, which prevents or reduces product defects and complaints.

Application

- Shielding gas control for high-quality welding applications
- Robust in soldering and welding machines
- 3D pressure under exclusion of oxygen

Technical Specification

TS-System	TecPen Weld O2	
Measurement range	0-2000ppm	
	Range	Accuracy
	0-500 ppm	±2% Mev**
	500-1000 ppm	±3% Mv*
	1000-2000ppm	±4% Mv*
Resolution	1 ppm	
Response time at 25°C/ 77°F	<15s	
Pump flow max.	400mL/min	
Temp. range Min./Max	-10°C/ +60°C	
	14°F/140°F	
Medium	Gas	
Life time of sensor spot (protective atmosphere under welding conditions; 0-60°C; with proper gas filtering)	24 months	
Power supply	5V USB and LiPo battery	
Rechargeable battery lifetime	> 3h	
Data Interface	USB and Bluetooth 4.0	
Temperature compensation	10-30°C	
	50-86°F	
Display	OLED Display	
Cleaning housing	No organic solvents, 40% EtOH	
Parts touching sample	St.1.4404 / PTFE / glass	
Case	aluminium anodized	
Protection	IP65	
Main service interval (Service including necessary retrofitting)	3 years	
Sensor cap replacement interval	2 years	
Recommended adjustment by customer	6 months	
Warranty	1 Year ex works	

**Mev = measured end value

*Mv = measured value

Scope of delivery

- TecPen Weld
- 1 USB-Cable
- 1 USB-Stick
  - o Declaration of conformity
  - o User Guide
- 1 Hose
- 1 lance
- 2 Particle filters
- 1 Hose adapter