



AM Trace

Atmosphere Gas Portable Analyser



The AM Trace transportable dual measurement (O₂ & H₂O) analyzer has been specifically designed for use in additive manufacturing.

The AM Trace utilizes electrochemical technology which can measure from 0.1 PPM to 25% oxygen and is unaffected by off gases (including hydrogen) produced in the build chamber.

The SF82 moisture sensor can quickly respond to moisture changes from -60°C dewpoint (10ppm H₂O).

This rugged and portable benchtop device includes a large touchscreen colour display which allows for onboard data logging and trending of gas concentrations.

Applications

- » Additive Manufacturing
- » Atmospheric Chamber Control
- » Inert Gas Purity
- » Air Separation
- » Gas Generation (oxygen / nitrogen)

Features

- » Accurately monitors oxygen and moisture levels in the AM build chamber
- » User-friendly touch-screen interface includes status notifications
- » Electronic flow sensor
- » RS-485 serial communications
- » USB / Flash drive input
- » Internal pump to extract sample from process
- » Portable case with handle



A Company of

PST
PROCESS SENSING
TECHNOLOGIES

AM Trace

Atmosphere Gas Portable Analyser

Technical specifications

Performance	
Transmitter Model	AM Trace
Measured gas / range	Oxygen / Dual Range 0 - 1,000 PPM / 0 - 25%
Measured moisture range	-60°C to +20°C DP
Response time (T90)	<15 seconds (oxygen)
Response time (T95)	-60°C to -20°C dew point < 1 minute
Repeatability	±0.5% of reading
Moisture repeatability	0.5°C dew point
Power supply	24VDC ±10%
Output Signal	2 X 4 - 20mA (1 x oxygen / 1 x moisture)
Sample flow	1 litre
Display	7" Touchscreen colour display
Relay Output	2 Relay Contacts per Channel
Communications	RS-485
Moisture Accuracy	± 2°C dew point
Oxygen Accuracy	± 2% of reading
Temperature range	5°C to 40°C (Ambient)
Process Connection	1/8" BSP Input / Exhaust
Dimensions	350mm (D) x 253.4mm (W) x 314mm (H) (excl. handle)
Weight	8.5kg (approx 19lb)
Certification	Complies with EMC Directive 2004 / 108 / EC

Ordering information

Model	Range	Sensor Type	Connection	Part No
AM Trace EC	Oxygen: 1 PPM - 25% / Moisture: -60°C to +20°C DP	Electrochemical	1/8" BSP	05-627

Related products



SENZTX
Oxygen Transmitter



SF82
Dew Point Transmitter



Minox i
ATEX Rated O₂ Transmitter



Microx-OL
Online Oxygen Analyser



Microx
Oxygen Analyser



Yellow Box
Portable O₂ Analyser



GazTrak
Portable oxygen & moisture measurement