

AM Trace

AM Chamber Atmosphere Analyser



AM Trace is a portable oxygen and moisture analyser designed to measure the internal atmosphere in the build chamber of an Additive Manufacturing Machine.

AM Trace has a measurement range of 1ppm to 25% oxygen. This sensor is unaffected by hydrocarbons or volatile atmospheres and is specifically designed for low Oxygen measurement (<100 PPM) on Additive Manufacturing Machines. The AM Trace has a fast response time from 20.9% to low PPM Oxygen.

AM Trace also incorporates a moisture sensor which allows measurement of moisture in the range of -60°C to +60°C.

AM Trace utilises touchscreen technology and front facing inputs / outputs to integrate into any system with ease.

Applications

- Additive Manufacturing
- Air Separation
- Inert Gas Supply
- Glove Box Applications
- Semiconductor Manufacturing Processes

Features

- Lightweight portable case with handle
- 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
- Relay output for Alarm / sounder beacon configuration
- In built sample pump allows you to extract the gas sample from the process.

The Ntron AM Range



AM Trace Product specifications

Measured Gas / Range	1ppm to 25% Oxygen
Measured Moisture Range	-60°C to + 60°C dew point
Response Time (T90)	<10 seconds (oxygen)
Response Time (T95)	5 mins (dry to wet) (moisture)
Repeatability	+/- 0.5% of reading
Moisture Repeatability	0.5°C dew point
Power Requirements	100-240 VAC
Output Signal	4 - 20mA
Sample Flow	50 - 200 sccm (150 sccm recommended rate)
Flow Rate (Moisture)	1 to 5 NI/min mounted in standard sampling block
Display	7" Touchscreen colour display
Relay Output	4 Relay Contacts per Channel (250 VAC @ 5A)
Communications	RS-485
Accuracy	+/- 2% of reading
Moisture Accuracy	+/- 2°C dew point
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)
European Compliance	Complies with EMC Directive 2004/108/EC

AM Trace Ordering information

Product	Sensor Technology	Measurement Range	Connection	Part No
AM Trace	Electrochemical	1ppm - 25%	G 1/8"	05-627