

automotive products



VIAMED

'R' Series Oxygen Sensors



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AN-300 Nitrogen Analyser & Accessories



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VIAMED

'R' Series Oxygen Sensors

As used by most automotive emissions testing equipment manufacturers.

- PTB, BAR90, BAR97 and CE product approval
- Accurate measurement performance
- Exceeds industry requirements; able to reach 0.01% (1/10 industry requirement)
- Long life in the field
- Fast response time
- Consistent linear response
- Stable zero
- Choice of connector and thread options
- Custom labels for corporate identification

The 'R' series of Oxygen Sensors from Viamed feature special Rhodium plating on the cathode resulting in greater resistance to the effects of CO₂, increasing the life of the sensor when used in exhaust emissions testing.

No minimum order value
&
no order processing charge

Viamed's online short-form cross reference can be used to check compatibility:

www.viamed.co.uk/xref

Alternatively, or if your oxygen sensor or equipment is not listed, please contact us and we will check our comprehensive database.



Free oxygen sensor disposal service
for the safe disposal of any of your depleted oxygen sensors



0110107
R-17A-LV



Output Connector: Switchcraft
Phone jack, 0.141"

Sensor Output: 7 - 11.5 mV
Input thread: Metric Thread, M16



0110117
R-17A



Output Connector: Switchcraft
Phone jack, 0.141"

Sensor Output: 7 - 13 mV
Input thread: Metric Thread, M16



0110121
R-21A



Output Connector: Molex, 3 pin plug

Sensor Output: 7 - 13 mV
Input thread: American Thread,
5/8-24 UNEF



0110122
R-22A



Output Connector: Molex, 3 pin plug

Sensor Output: 7 - 13 mV
Input thread: Metric Thread, M16



0110127
R-17AV



Output Connector: Switchcraft
Phone jack, 0.141"

Sensor Output: 9 - 13 mV
Input thread: Metric Thread, M16



0110131
R-21AV



Output Connector: Molex, 3 pin plug

Sensor Output: 9 - 13 mV
Input thread: American Thread,
5/8-24 UNEF



0110132
R-22AV

TELEDYNE
ANALYTICAL
INSTRUMENTS



Output Connector: Molex, 3 pin plug
Sensor Output: 9 - 13 mV
Input thread: Metric Thread, M16



0110137
R-17AH

TELEDYNE
ANALYTICAL
INSTRUMENTS



Output Connector: Switchcraft
Phone jack, 0.141"
Sensor Output: 10.5 - 13.5 mV
Input thread: Metric Thread, M16



0110142
R-22AH

TELEDYNE
ANALYTICAL
INSTRUMENTS

Output Connector: Molex, 3 pin plug
Sensor Output: 10.5 - 13.5 mV
Input thread: Metric Thread, M16



0110950
N-33

TELEDYNE
ANALYTICAL
INSTRUMENTS

for use with AN300
Nitrogen Analyser

Output Connector: Molex, 3 pin plug
Sensor Output: 7 - 13 mV
Range: 0 - 20.9% O₂
(79.1 - 100% N₂)

Range	0% to 100% O ₂
Resolution	Better than 0.1% O ₂
Linearity	± 1% of full scale at constant temperature and pressure
Expected life	36 months at 20.9% O ₂ , 25°C, 50% R.H.
Response time	30 seconds or less 20.9% O ₂ to 0.1% O ₂ (Actual response of sensor is < 6 seconds 0 to 90% O ₂)
Humidity	0 - 99% R.H., non-condensing
Operating temperature	0°C to +50°C
Temperature compensation	±5% of reading over operating range (at thermal equilibrium)
Cross interference	Less than 0.1% O ₂ response to: 15% CO ₂ , balance N ₂ 7% CO, balance N ₂ 3000 ppm NO, balance N ₂ 3000 ppm Hexane, balance N ₂
Approvals	PTB, BAR90, BAR97, CE, EN60601 (89/336/EEC)
Warranty	12 months

Specifications in air at 25°C, sea level

AN-300 Nitrogen Analyser

Features of the AN300 include:

- Microprocessor controlled for enhanced performance
- Large, easily-read backlit LCD display
- Auto calibration
- Battery strength indicator
- Auto diagnostics with fault codes
- Auto power off-function after ten minutes
- Coiled sensor cable extendable to 3 m
- Supplied with 8 mm Twin Hold-On Connector for most automotive tyres
- Optional 12 mm In-Line Hold-On Connector available for aircraft tyres



The AN300 Derived Nitrogen Analyser is a hand-held device designed to analyse the balance of nitrogen in vehicle tyres where nitrogen has been used as an inflation gas.

Nitrogen inflation is becoming increasingly popular for road use, as well as being used extensively in specialist applications such as aircraft and motorsport tyres.

The AN300 offers a low-cost, easy to use nitrogen analysing solution.

The AN300 includes the following standard accessories:



0110950

N-33 Oxygen Sensor



0121251

8v1 Twin Hold-On Connector
for 8 mm valves (commonly used
for automotive tyres)



0121250

1/4 NPT Thread Converter

Range	0% to 100% N	
Full scale accuracy	± 2% at constant temperature and pressure	
Response time	90% of final value in less than 10 seconds	
Operating temperature range	0° to +40°C	
Power requirements	3 x AA/LR6/MN1500 1.5V alkaline batteries	
Battery life	2000 hours minimum (12,000 10-minute on/off cycles)	
Sensor type	Teledyne class N-33	
Sensor life	24 months in air	
Sensor cable	Extendable to 3 metres	
Weight	420g	
Dimensions	140 mm (H) x 88 mm (W) x 76 mm (D)	
Approvals	CE	
Connectivity	1/4" NPT threaded sensor holder	
Part Number	AN300 Nitrogen Analyser	0111205
Accessories included:	N-33 Sensor	0110950
	8v1 Twin Hold-On Connector for 8 mm valves (Commonly used for automotive tyres)	0121251
	1/4 NPT Thread Converter	0121250
	3 x AA/LR6/MN1500 1.5V alkaline batteries	
Optional accessories	12v1 In-Line Hold-On Connector for 12 mm valves (Commonly used for aircraft tyres)	0121252
	Universal mounting clamp	0121200

Additional Accessories for use with Teledyne AN300 Nitrogen Analyser

0121252



12v1 In-Line Hold-On Connector for 12 mm valves (commonly used for aircraft tyres)

0121180



'V' Wall Mount

0121181



'V' Mount Pole Clamp
Small:
14 - 25 mm clamping width

0121182



'V' Mount Pole Clamp
Large:
16 - 40 mm clamping width

0121184



'V' Mount Rail Clamp
Attaches to most types of
midrail 30 mm (H) x 10 mm (D)

0121197



'V' Mount Pole Clamp
Horizontal
10 - 40 mm clamping width

0121199



Table Top Swivel Mount*

0121200



Universal Mounting Clamp
Attaches to the threaded
socket at the rear of the unit



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