

## AN300 Nitrogen Balance Gas Analyser



### Description

Developed using start-of-the-art design and the latest manufacturing techniques, the microprocessor based AN300 nitrogen balance analyser has been designed for specialist vehicles applications.

The application is the testing of nitrogen in vehicle tyres. Specialist applications (large aircraft, motor racing tyres, heavy machinery) use nitrogen as an inflation gas for a number of reasons: the nitrogen permeates through the tyre casing at around a third of the rate of oxygen, which keeps tyres inflated for longer. It also reduces the oxidation caused by oxygen and water vapour, thus extending the life of the tyre, and has a lower expansion rate with temperature, resulting in more even pressures under various conditions. The monitor has a stem for connecting to the tyre valve.

Featuring easy calibration, settings are secured when the lock key is pressed. In addition the low power draw allows the unit to continuously for 2000 hours on just 3 AA alkaline batteries. The AN300 features the improved N33 oxygen sensor which provides superior long-term stability and accuracy.

### Features

- Microprocessor controlled for enhanced performance
- Large easily read LCD display
- Auto calibration
- Battery strength indicator
- Auto diagnostics with fault codes
- Auto power off function after five minutes unattended
- Improved N33 sensor with flow diverter
- Sensor cable extendable to 3m
- Supplied with stem probe for connecting to vehicle tyre valves (8mm & 12mm sizes available)

### Technical Data

Analysis Range	0-100% N <sub>2</sub>
Full Scale Accuracy	+/-2% at const temp / pressure
Response time	90% of step change in 8 seconds
Normal Operating Temperature	0-50° C (ambient temperature)
Storage temperature	-40°C to 70°C
Power requirement	3 x AA alkaline batteries
Battery life	Minimum 2000 hours
Sensor type	Teledyne class N33
Sensor life	36 months in air
Sensor cable	Extendible to 3m
Weight	420g
Dimensions	140mm (h) x 88mm (w) x 76mm (d)
Signal output	0-1 VDC or RS-232 (2400 Baud rate)
RFI hardened	Yes
Warranty	AN300: 24 months N33: 12 months
Options	2.5 digit LCD display
Compliance	IOS 7767
Regulatory approvals	CE, CSA and FDA

