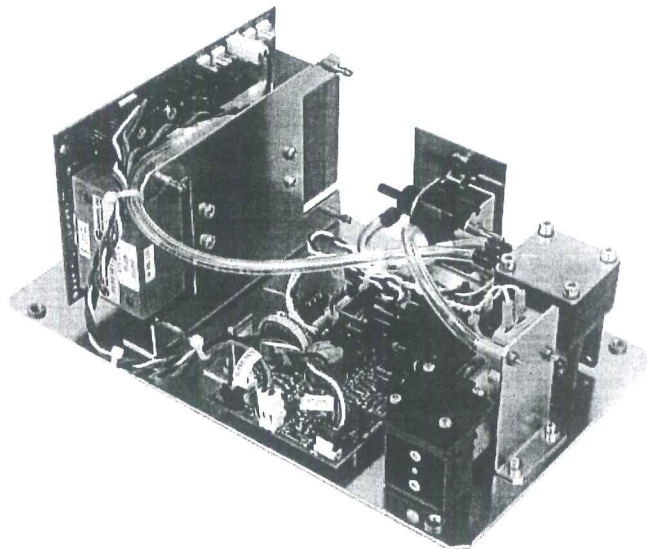
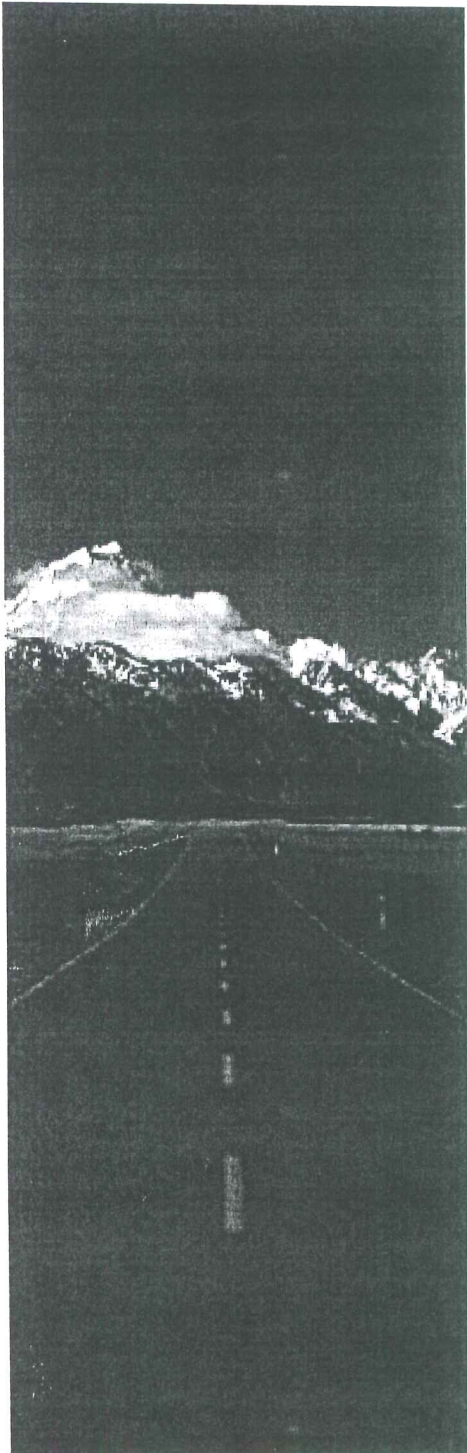


GEM II

GENERIC EMISSIONS MODULE



Sensors' Generic Emission Module (GEM) is complete with the Sensors AMBII Microbench, a carefully selected pump and filtering system, a customized 12 volts power supply and driver p.c. board - prepared for the supply from a vehicle's battery - and a chassis for easy incorporation into a gas analyzer housing.

The module's complexity allows our customers to reduce development work and make use of a proven design.

Several options enhancing system functionality are available for the Module, including RPM and Oil Temperature measurement and spare A/D channels

The Module:

- Based on the Automotive Microbench
- Meets all international standards including ISO 3930 and OIML class 0
- O₂ and NO_x Options

PRODUCT SPECIFICATIONS:

Storage Temperature: -50 °C to 70 °C

Operational Temperature: -12 °C to 48 °C

Response Time: $T_{90} = 3.5s$

Flow Rate: 5.0 L/min typical

Warm Up: software controlled

Operating Pressure: 750 mbar - 1100 mbar (1000 mbar nominal)

Module Power Requirements

Supply Voltage: 12VDC nominal

Current: 1.5A typical

Software & Communications

9600 Baud rate, Communication via RS-232.

Options:

- Measurement of NO_x with electrochemical NO_x transducer
- Measurement of O₂ with electrochemical O₂ transducer

Disclaimer:

Specifications are subject to change without notice. While due caution has been exercised in the production of this document, possible errors and omissions are unintentional.

Gas	Standard Range	Resolution	High Range	Resolution
HC	0-2,000 ppm Hexane 0-4,000 ppm Propane	1 ppm	0-20,000 ppm Hexane 0-40,000 ppm Propane	10 ppm
CO	0-10%	0.01% vol.		0.001% vol.
CO ₂	0-20%	0.1% vol.		0.01% vol.
O ₂ *	0-25%	0.01% vol.		
NO _x *	0-5000 ppm	1ppm		

*- Optional through an electrochemical sensors