



MODEL 500R SERIES

REMOTE GAS TRANSMITTER

APPLICATIONS

Individual models for remote gas sensing and signal transmission of O₂, CO, CO₂, ethylene, H₂, NH₃, SO₂, HCl, Cl₂, H₂S, NO, NO₂ and HF for personnel safety in confined spaces.



521D CO₂ Transmitter

FEATURES

- Long life electrochemical sensor for each gas except CO₂
- CO₂ detected by solid state infra red detector
- 4-20ma output for desired range of each gas
- Fast response
- Fast recovery after 'overdose'
- Corrosion resistant enclosure (Nema 4X)
- No sample pumps
- One person calibration
- 12V-30VDC powered (2 or 3 wire system)
- LED indication of alarm status and power on

OPTIONS

- Local digital readout
- One or two levels of alarm contacts built in
- Central alarm or control units with power supplies available

DESCRIPTION

The Nova 500R Series of remote gas transmitters are designed to specifically detect one gas and transmit its level as a 4-20ma signal. In addition, all versions can have one or two levels of built in solid state or dry contact alarm switches to activate fans, dampers or remote alarms.

The gas sensor is a customer replaceable electrochemical cell with an amplifier and current transmitter, with the exception of CO₂ which is a solid

state infra red detector. The HF detector is a permanent type electrochemical detector with replaceable electrolyte.

The customer may select the desired measuring range.

Power to the transmitter is usually 24VDC, regulated or unregulated, although the transmitters will operate at 12-36 volts DC 2 wire or 3 wire.

Units with built in alarm are 3 wires plus one wire per alarm.

Calibration can be completed by one person, right at the sensor.

Nova can provide power supplies, booster relays and remote recording, data logging or alarm modules for the control room.

All models are housed in corrosion resistant and water resistant NEMA 4X enclosures.

Individual data sheets with specifications are available for the following models:

510R	Oxygen Deficiency Transmitter	570R	Ethylene Transmitter
521D	CO ₂ Transmitter	575R	Nitric Oxide Transmitter
530R	Hydrogen Transmitter	580R	CO Transmitter
537R	Fluorine/Hydrogen Transmitter	585R	Nitrogen Dioxide Transmitter
540R	Chlorine Transmitter	590R	HCl Transmitter
550R	H ₂ S Transmitter	595R	NH ₃ Transmitter
560R	SO ₂ Transmitter		

Nova reserves the right to specification changes which may occur with advances in design without prior notice.

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