



Dependable Gas Analysis Solutions

## 401S / 402AS SERIES SAMPLE POINT SEQUENCERS



### APPLICATIONS

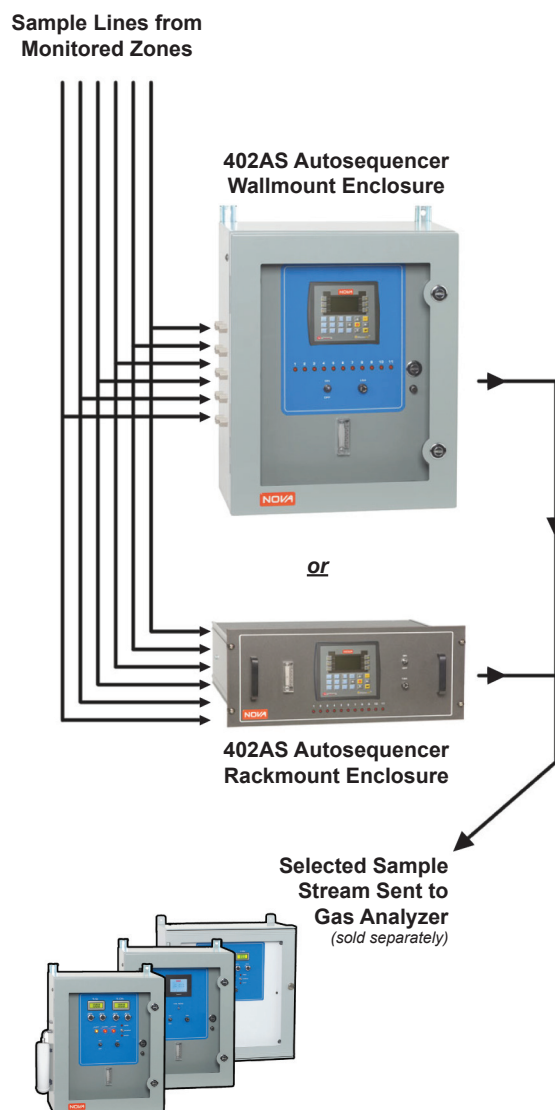
Allows a single Nova gas analyzer to be time shared over many sample points. It can be controlled locally or by the customer's PLC. Applications include mushroom farms, multiple greenhouses, flue gas ducts, landfill wells, and many others.

### FEATURES

- Available from 3 to 24 sample points selected by solenoid valves
- Greatly reduces cost per sample point for multiple-zone analyses
- Digital display of active sample point with time remaining countdown
- Selectable sample time
- Provides sample stream identification
- Manual override with sample hold
- Skip feature allows unwanted samples to be skipped over.
- All samples continuously drawn into sequencer by built-in by-pass pump to keep non-active samples 'fresh'; only active sample point goes to analyzer, the rest are vented.

### OPTIONS

- Relay contacts for each sample point
- Available without micro-controller for connection to customer's PLC (Model 401S)



NOVA ANALYTICAL SYSTEMS

[www.nova-gas.com](http://www.nova-gas.com)

## DESCRIPTION

The 402AS Automatic Sequencer allows a single Nova gas analyzer to be time shared between 3 to 24 sampling points. This greatly reduces the cost per sampling point for multiple-zone analyses.

The 402AS consists of microprocessor based timing, a solenoid valve for each point and a by-pass pump. The by-pass pump continuously draws on all sample points so as to keep fresh sample always available for analysis. Inactive sample points can simply be skipped over. Also, the timer can be stopped on any one point and held there for as long as desired with a simple key press. A small keypad allows easy data entry.

Another variation is the lower cost 401S sequencer which is available to customers with their own computer or PLC to control timing. The 401S contains the sample selecting solenoid valves and the by-pass pump. Activation of the solenoid valves would then be controlled directly by the customer's computer or PLC. The sequencer can have as many sample points as desired.

For every 6 sample points, another by-pass pump is added to ensure an adequate supply of fresh sample available for analysis. Flow meters with valves are provided for each incoming sample line in either version for flow balancing.

## MODELS

- Model 402AS-XX-YY - Autosequencer with Nova-provided microprocessor control
- Model 401S-XX-ZZ - Sequencer using customer-provided control  
where: XX = the number of sample points; YY = cabinet style (N12 or RM); ZZ = voltage for solenoid valves
- If purchasing Model 402AS, please specify method of sample stream identification: 5V TTL, or contact closure

## SPECIFICATIONS

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

Description	
<b>Method of Detection:</b>	No detection; sequences sample streams to separately-sold gas analyzers
<b>Ranges Available:</b>	Any between 3-24 samples
<b>Resolution:</b>	n/a
<b>Accuracy and Repeatability:</b>	n/a
<b>Drift:</b>	n/a
<b>Response Time (T-90):</b>	n/a
<b>Ambient Temperature Range:</b>	40 to 104°F (4 to 40°C). Optional: -30°C to 55°C (-22°F to 131°F) with Outdoor Pkg.
<b>Linearity:</b>	n/a
<b>Size and Weight:</b>	Dimensions will vary depending on enclosure style, number of sample points and options and required
<b>Power:</b>	115VAC 60Hz (220VAC 50Hz and DC voltages available)
<b>Output Options:</b>	5V TTL or contact closure
<b>Alarms:</b>	n/a



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