OEM Lab Process

NDIR Gas Analyzers

Features

Specific Interference-Free Gas Detection

Dual-Wavelength Ratioing Compensates for Drift

No Moving Parts

Onboard Computer for Accuracy

Sapphire Protected Optics

Non-Corrosive, Non-Reflective Heated Sample Cell Prevents Condensation

Outputs

RS-232 / 485

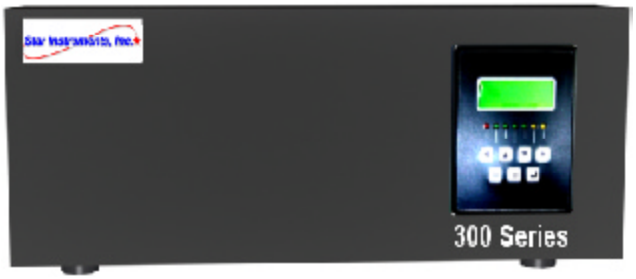
4-20mA

0-10 VDC

Options

Dual NDIR Package

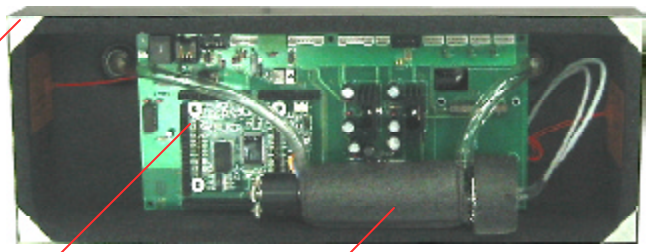
2 Level Alarms

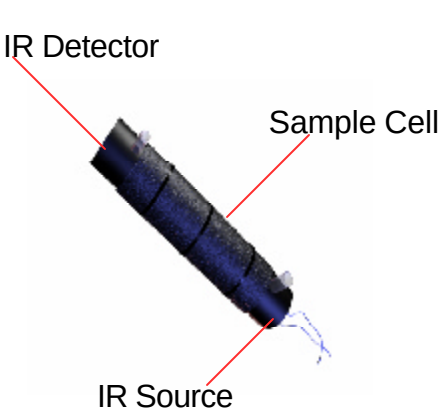


- Fully Automatic
- Digital Display/Control

Benchtop or Rack Mounted
(300 Series)

- OEM PACKAGES -



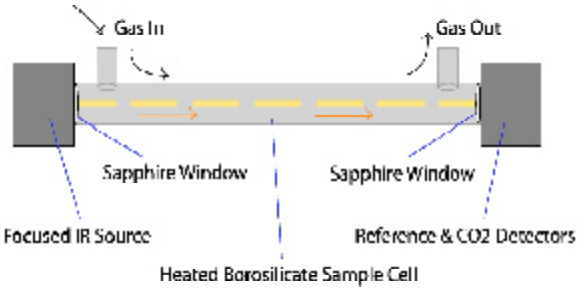


- No Moving Parts for Easy Maintenance and Service
- No Critical Realignment Required

Note: Dual NDIRs can be installed in a single enclosure

Star Instruments, Inc.

Choice of Optical Benches
(Easily cleaned or interchanged)



Detection Technique

The focused infrared (IR) source is electronically chopped and radiates IR energy down the optical path onto the dual detector assembly. The analytical detector responds specifically to the gas of interest. The reference detector does not respond to that gas or other gases in the sample stream. Differential ratioing of the analytical and the reference signals several times each second provides stable, drift-free operation. Precise temperature control of the gas/sample system adds stability over a wide range of environmental conditions.

THE STAR ADVANTAGES . . .

1. Best detection technique, introduced by the Star Team in 1974, enhanced by recent digital technology advances.

2. Superior optics, protected by sapphire, assure many years of trouble-free operation.

3. No moving parts to wear out or fail, demonstrating the highest reliablility MTBF on the market today.

4. Unrivaled Sample Cell (10 year warranty)

   a. Non-reactive to concentrated acid gases and other highly corrosive chemical agents.

   b. Non-reflective, overcoming alternate gold lined sample cell problems, which cause analyzer drift as the gold lined surface degrades with corrosion, condensation and aging.

   c. Temperature controlled heated cell provides accurate analysis and protection against condensation.

Specifications (Nom)

- Analysis Method - NDIR Single Beam, Dual Wavelength
- Single Gases Measured - CO, CO2, and HC
- Measuring Range - 0-1000ppm or 0-1.0%
- Resolution - 1.0% of Full Scale
- Repeatability - 1.0% of Full Scale
- Noise - 1.0% of Full Scale
- Drift - 1.0% of Full Scale (Non-Accumulative)
- Display - Dot Matrix LCD
- Alarms - High & Low Limit, User Selectable
- Analog Output -10 VDC. Isolated 4-20mA Option
- Front Panel - Seven Button Interface, Using Display Menus
- Power - 115/230 VAC, 50/60 Hz or 12VDC
- Dimensions - 18” L x 7” W x 4.5” H (45.7cmx17.8cmx11.4cm)
- Weight - 5 lbs (2.27 kg)

Contact Us for more information, or questions about how we can help you integrate the Star NDIR Analyzer into your products.

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