

COMPACT INFRARED GAS ANALYZER

RI-555

FEATURES

- NON-DISPERSIVE INFRARED (NDIR)
- AUTORANGING STANDARD
- 0-0.5% UP TO 0-100% FULL SCALE
- LARGE LED DIGITAL READOUT
- COMPACT AND LIGHTWEIGHT
- AUTO SAMPLING INTERNAL PUMP
- RUGGED DESIGN
- RECORDER OUTPUTS
- SIMPLE TO CALIBRATE AND OPERATE



The RI-555 Compact Infrared Gas Analyzer is a single gas, dual range, rugged, lightweight, non-dispersive infrared (NDIR) analyzer designed to continuously measure CARBON MONOXIDE (CO), CARBON DIOXIDE (CO₂), METHANE (CH₄), ETHYLENE (C₂H₄), ETHANE (C₂H₆), PROPANE (C₃H₈), or ISO-BUTANE (C₄H₁₀) levels. The gas sample is drawn into the unit by an internal pump and the concentrations are displayed on a large LED digital readout. A recorder output is standard.

Each choice of ranges, initially selected by the user, incorporates autoranging. This ensures an extensive range of utility for a variety of industries such as automotive, environmental control, laboratory, research, and any other applications where analysis of these gases are required. A user adjustable gas alarm can be activated if needed.



CEA Instruments, Inc.

"EXPERTS IN TOXIC GAS DETECTION"

RI-555 SPECIFICATIONS

AVAILABLE FOR: **Carbon Monoxide (CO)** **Ethane (C₂H₆)**
 Carbon Dioxide (CO₂) **Propane (C₃H₈)**
 Methane (CH₄) **Iso-Butane (C₄H₁₀)**
 Ethylene (C₂H₄)

RANGES	LOW RANGE (resolution)	HIGH RANGE (resolution)
*0 - 1.980%	0 - 0.5% (0.005%)	0.5 - 1.980% (0.02%)
0 - 4.95%	0 - 1% (0.01%)	1 - 4.95% (0.05%)
0 - 9.90%	0 - 2% (0.02%)	2 - 9.90% (0.1%)
0 - 19.80%	0 - 5% (0.05%)	5 - 19.80% (0.2%)
0 - 49.5%	0 - 10% (0.1%)	10 - 49.5% (0.5%)
**0 - 99.0%	0 - 20% (0.2%)	20 - 99.0% (1.0%)

(*Carbon Monoxide, Methane, and Ethylene not available 0 - 1.980% range)

(**Ethane, Propane, and Butane not available 0 - 99.0% range)

MEASURING PRINCIPLE Non-Dispersive Infrared Absorption (NDIR)

SAMPLING METHOD Automatic sampling internal pump

RESPONSE TIME Less than 10 seconds to 90% response

REPEATABILITY Better than +/- 2% of full scale

LINEARITY Better than +/- 3% of full scale

EXTERNAL OUTPUT SIGNAL 4-20 mA current output as standard or
0 -1V voltage output *if specified when ordered*

GAS ALARM Activated and set upon request - user adjustable;
Alarm light (red) with 1A gas alarm contact

TROUBLE ALARM Detector output, monitor and system trouble;
Trouble light (red) with 1A trouble alarm contact

POWER SOURCE 115/220 VAC, +/- 10%, 50/60 Hz (specify)

TEMPERATURE RANGE 32° F to 104° F (0° C to 40° C)

OPERATING HUMIDITY 0 - 90% RH non-condensing

DIMENSIONS Approx. 8.67" x 7.88" x 12.61" (220 x 200 x 320 mm)

WEIGHT Approx. 13.2 lbs (6 Kg)

(Specifications subject to change without notice.)



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RI-555 PRICE LIST

Compact Infrared Gas Analyzer with digital readout, single gas, dual range analysis of **CARBON MONOXIDE, CARBON DIOXIDE, METHANE, ETHYLENE, ETHANE, PROPANE, or ISO-BUTANE.**

Complete with internal sample pump, 4-20 mA current output, trouble alarm light and trouble alarm contact, internal dust filter, fuse, exhaust tubing, and operation manual.

***(Specify gas and range when ordering)*.....\$ 3995.00**

NOTE: A voltage 0-1 V output can be substituted for the standard 4-20mA current output if specified when ordered.

NOTE: The gas alarm light and gas alarm contact are user adjustable. Please specify if you want this feature activated and set at factory.

Internal Dust Filters, Package of 3.....\$ 75.00

RI-555 Calibration Kit information is available upon request.