



INFRARED CO₂ GAS MONITOR

LEADERS IN GAS DETECTION

Since 1977

RI-215 Model



Features:

- Alarm contact output provided
- Compact design
- Easy to read LCD display
- Simple installation
- Low maintenance
- Three detection ranges available:
2000ppm / 5000ppm / 9990ppm

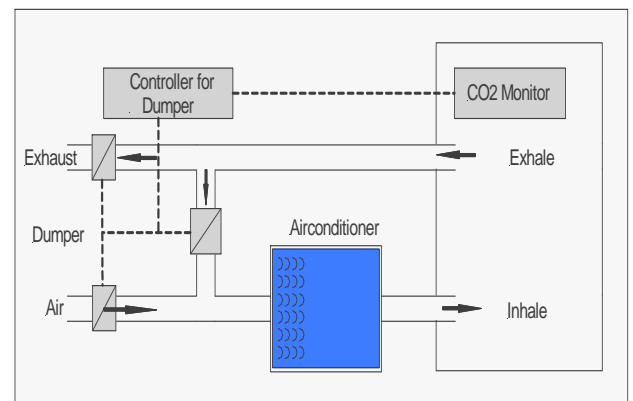
Applications:

- HVAC
- Food processing
- Breweries
- Greenhouses
- Industrial plants
- Laboratories
- Computer rooms
- Gas storage rooms

Control Equipment Models RI-215A and RI-215D are compact and highly reliable CO₂ monitors designed for ventilation control. They utilise highly reliable Non Dispersive Infrared gas absorption technique to provide exceptional long term stability and low maintenance.

These monitors are intended to provide years of trouble-free CO₂ monitoring for safety or ventilation control of offices, labs, etc. Two styles are available; Model RI-215D (sample draw version with internal pump) and Model RI-215A (diffusion, compact version). Three detection ranges are also available with full scales of either 2000, 5000 or 9990 ppm.

| CO ₂ Gas in air (%) | Symptom |
|--------------------------------|---|
| 0.1 | Building control law/office CO ₂ hygiene control level |
| 0.5 | TLV level (Threshold Limit Value) |
| 1 to 2 | Feel uncomfortable |
| 3 to 5 | Breathing increase, Pulse increase, Blood pressure increase, Headache and Dizziness occur |
| 6 to 7 | Breathing becomes difficult |
| 7 to 10 | Unconscious within a few minutes |
| 20 | Unconscious within a few seconds and heart stops pulsating |



OIL & GAS



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SPACE



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LABORATORIES



HVAC



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FUMIGATION

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Offices/Agents in:

Sydney
Melbourne
Adelaide

Hobart
Auckland
Wellington



| MODEL | RI-215A | RI-215D |
|------------------------------|---|-------------------------------------|
| Detection principle | Non dispersive infrared absorption (NDIR) | |
| Measuring gas | Carbon dioxide (CO ₂) in air | |
| Measuring range | 0-2000ppm, 0-5000ppm, 0-9990ppm Specify one of the ranges when ordering | |
| Increment | 1 ppm digit for 0-2000ppm or 10 ppm digit for 2000ppm - 9990ppm | |
| Output signal | Specify between 0-10VDC linear (min. 500kΩ) and 4-20mA linear (min. 300kΩ) | |
| Power requirement & consump- | 24VDC or 24VAC ± 10%, 4VA | 240VAC ± 10%, 50/60Hz, 12VA |
| Outer dimensions (in mm) & | Approx 78 (W) x 78 (H) x 31mm (D) | Approx 220 (W) x 200 (H) x 76mm (D) |
| Warming up time & operating | 30 minutes for full warm up (display starts after 1 minute) / 0-40°C, 10-90% RH | |
| Alarm range & contact | 50ppm – Full scale (adjustable in steps of 10ppm) / 125VAC, 0.5A, dry contact | |



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