



INSTRUMENTS

# HIGH SENSITIVITY FORMALDEHYDE GAS MONITOR

Gas Detection For Life

FP-330 Model



## Features

- Small and compact
- Highly sensitive and ideal for low level formaldehyde concentrations
- Interference-free detection
- Easy detection tape replacement with plug in cassette
- Tape remainder display and tape end warning alarm provided
- PPM digital display
- Easily transportable
- 115 VAC powered
- Alarm relays
- 4-20mA output

## Applications

- Furniture and woodworking
- Coating and varnishing
- Engineered wood products
- Medical / veterinary
- Painting & corrosion resistant finishes
- Carpet manufacture & storage
- Adhesives
- Heat treatment operations
- Manufactured homes/trailer/RV inspection

RKI's paper tape monitors utilize highly sensitive colorimetric tapes to achieve interference free gas detection. The FP-330 is equipped with an easily replaceable tape that is highly specific to Formaldehyde. This model is equipped with a digital display showing the type of gas and concentration in PPM. The FP-330 will also display remaining tape life as well as an end of tape alarm.

The FP-330 has audible and visual alarms, as well as alarm relay contacts and 4-20mA output. A unique "Tape Saver mode" extends tape life in applications where high background gas levels may be present.

The FP-330 meets and exceeds OSHA and NIOSH compliance requirements, and does not respond to interfering gases (hydrocarbons, alcohols, solvents, CO, etc.) that may be present in industrial/manufacturing environments.

# FP-330 Model

| Model                            | FP-330 HCHO 0 - 0.500 ppm   | FP-330 HCHO 0 - 1.00 ppm    | FP-330 HCHO 0 - 5.00 ppm |
|----------------------------------|---|-----------------------------|--------------------------|
| Detection principle              | Photoelectric photometry method using tape cassette   |                             |                          |
| Detection tape                   | Plug in cassette, 65-FCL-018  |                             |                          |
| Detection gas                    | Formaldehyde (HCHO)   |                             |                          |
| Detection range                  | 0.030 to 0.500 ppm  | 0.05 to 1.00 ppm            | 0.3 to 5.00 ppm          |
| Alarm point                      | 1st 0.080 ppm, 2nd 0.300 ppm  | 1st 0.17 ppm, 2nd, 0.33 ppm | 1st 0.8 ppm, 2nd 1.7 ppm |
| Alarm operation                  | Latching alarm (standard) or non-latching (option)<br>Lamp : Caution = Yellow, Alarm = Red, with buzzer |                             |                          |
| Zero suppression                 | 0.030 ppm   | 0.05 ppm                    | 0.3 ppm                  |
| Measuring cycle                  | 1800 seconds (30 minutes)   | 600 seconds (10 minutes)    | 180 seconds (3 minutes)  |
| Resolution                       | 0.005ppm  | 0.01 ppm                    | 0.1 ppm                  |
| Flow rate                        | 450ml/min. (nominal)  |                             |                          |
| Max. tubing length               | 2m (teflon only)  |                             |                          |
| Accuracy                         | +/-20% of indication value + 1 digit  |                             |                          |
| Tape operation time              | 1 month with no background gas. (see note below)  |                             |                          |
| Alarm Indication                 | Warning and alarm with audible and visual indications   |                             |                          |
| Self-diagnosis                   | Low flow, tape cut, sensor failure, etc.  |                             |                          |
| External output signal           | 4-20mA (load resistance: below 300 Ω)   |                             |                          |
| Operating temperature & humidity | 5~35°C 20~60% RH (non condensing)   |                             |                          |
| Gas inlet/outlet                 | OD 6mm with fittings  |                             |                          |
| Power supply & power             | 100VAC to 220VAC universal power, +/-10%  |                             |                          |
| Dimensions & weight              | Approx. 6.5"(W) x 7.8"(H) x 10.4"(D) Approx. 12.125lb<br>164 (W) x 198 (H) x 263 (D) mm, 6.5kg approx.  |                             |                          |

When HCHO exists in the background continuously over 0.03 ppm, the tape on FP-330 advances after every measurement, so the tape is consumed very quickly. In this case, to extend operating time, the Tape Saver mode is provided on the FP-330.

Tape Saver mode is available for all three ranges;

0H: Normal operation.

1H: One measurement during one hour. Tape lasts 15 days with constant background level.

2H: One measurement during two hours. Tape lasts 30 days with constant background level.

Specifications subject to change without notice.



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