

# FORMALDEHYDE GAS DETECTOR

Gas Detection for Life

FP-30 / FP-40 Model



## Features

- Simple operation
- Specific to Formaldehyde
- Built-in sample draw pump
- Easy to read LCD display
- Self-diagnosis
- Uses photoelectric photometry technology
- Direct digital readout
- Colorimetric detection tablet method
- No false readings from interfering gases
- Operates on 4 AA alkalines
- Stores 99 readings
- No warm up time

## Applications

- Furniture and woodworking
- Coating and varnishing
- Engineered wood products
- Medical / veterinary
- Painting & corrosion resistant finishes
- Carpet manufacture & storage
- Adhesives
- Heat treatment operations
- RV/Trailer/mobil home inspecting

These highly sensitive portable gas detectors use photoelectric photometry method with colorimetric detection tab. The sample drawing rate is controlled by a microprocessor. Both the FP-30 and FP-40 have a direct readout of measurement value on an LCD display. The Model FP-30 can detect the new World Health Organization level of 0.08 ppm average for 30 minutes.

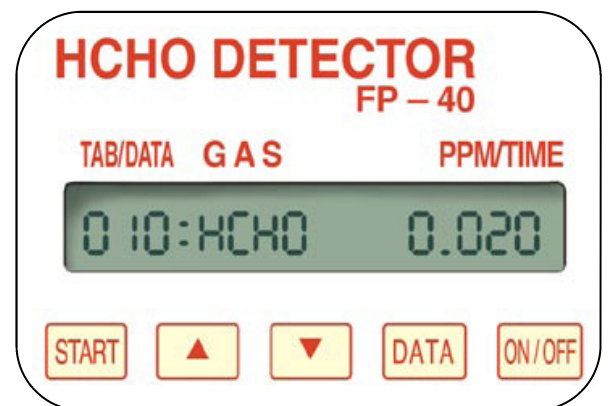
### FP-30 Detection Ranges

30 minute sample 0 - 0.4 ppm (0.005 ppm/digit)

15 minute sample 0 - 1.0 ppm (0.01 ppm/digit)

### FP-40 Detection Ranges

3 minute sample 0 - 0.6 ppm (0.01 ppm/digit)



RIKEN KEIKI

# FP-30 Model

MODEL	FP-30		FP-40
Detection gas	Formaldehyde (HCHO) in air		
Detection range	0~0.4ppm (0.005 ppm/digit)	0~1.0ppm (0.01 ppm/digit)	0~0.6ppm
Detection time	30 min. (1800 sec)	15 min. (900 sec)	3 min. (180 sec)
Detection principle	Photoelectric Photometry method		
Detection method	Colorimetric tablet method (Accumulating measurement)		
Accuracy	± 10%		
Display	Digital LCD		
Sampling method	Sample drawing with built-in pump		
Operating conditions	-10 ~ +40°C, below 90%RH (non-condensing)	5 ~ 35°C, below 90%RH (non-condensing)	
Memory	Detection point: Up to 99 points (automatic recording at completion of measurement)		
Self-Diagnosis	Failure of light source and light receiver, low battery voltage, pump failure, system trouble		
Power Source	AA size Alkaline batteries (Qty 4)		
Continuous operation	Approx 12 hours (with no alarm or backlight, with alkaline battery at 20°C)		
Dimensions	Approx 85(W) x 190(H) x 40(D)mm		
Weight	Approx 500g		
Standard Accessories	Detection TAB (20 pcs/pack) ** Carrying case AA size alkaline batteries Operating manual		
Warranty	One (1) year material and workmanship		

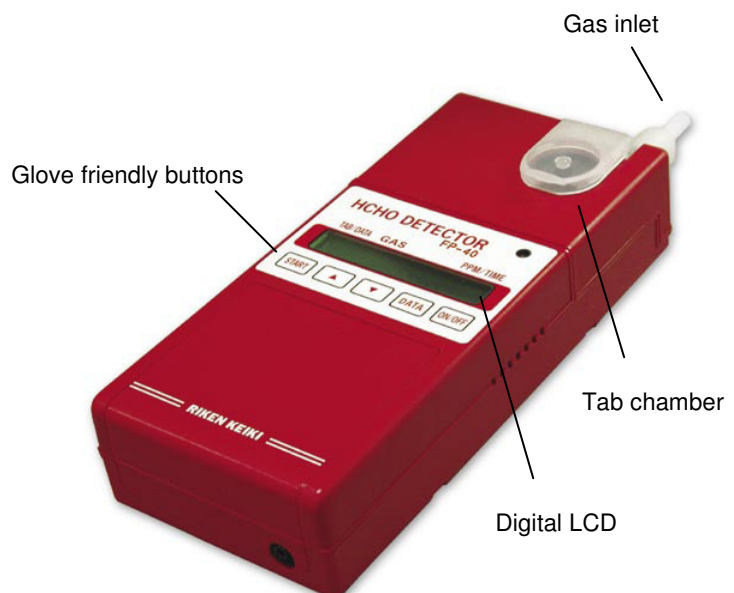
Interference against other gases (typical)		
Test Gas	Concentration	Reading
Toluene	1.0% vol	0 ppm
Benzene	1.0% vol	0 ppm
Acetaldehyde	100 ppm	0 ppm
Carbon Monoxide	50 ppm	0 ppm
Carbon Dioxide	1.0% vol	0 ppm
Ammonia	25 ppm	0 ppm
Acetone	1.0% vol	0 ppm

Field Test Verification Data		
Measurement Place	FP-30	DNPH method*
Interior	0.020 ppm	0.025 ppm
Locker	0.030 ppm	0.03 ppm
Furniture	0.040 ppm	0.05 ppm

\* Dinitrophenylhydrazine detection method

\*\* Please note: Detection tabs have one year shelf life. They must be stored in a refrigerator (3-10°C)

Note: Specifications subject to change without notice.



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