

FMS^R 7200 SPECIFICATIONS

INSTRUMENT TYPE

1. Vendor EOCOM
2. Measurement Technology Fourier Transform Infrared (FT-IR)

II. INSTRUMENT SPECIFICATIONS

1. Total System sample Up to 100 points in 15 minutes
point sequence time (with multi-level sampling)
2. *Sensitivity Vinyl Chloride - 50.0 ppb
Arsine - 10.0 ppb
Phosphine - 50.0 ppb
NiCo₄ - 0.2 ppb
3. Specificity No interference from ambient counpounds
in sample
4. Dynamic Range Vinyl Chloride - 50.0 ppb - 3,600 ppm
Arsine - 10.0 ppb - 250 ppb
Phosphine - 20.0 ppb - 1,250 ppb
NiCo₄ - .2 ppb - 1,000 ppb
5. Analysis Time 10 - 30 seconds
6. Accuracy ±10%
7. Reliability 99% or better up time
8. Analyzer Location Control Room
9. Calibration Method/ Automatic
Frequency
10. Instrument Drift. None
11. Consumables Electricity, water, and air
12. Future Interferences Adaptable analytical method,
no decrease in sensitivity or
increase in measurement time
13. Additional Gases to Up to Five (5) gases simultaneously
monitor

II. COMPUTER CONTROL

1. Type of Computer PDP-11
2. Core Memory 28K Core, 16 bit
3. Auxiliary Memory Disk
4. Output Device DEC Writer, TTY or TI 700
5. Foreground/Background Allows use of system while monitoring

*See OSHA Gas Concentration
Capabilities Data Sheet

OCC 0071

FMS^R 7200 SPECIFICATIONS

III. COMPUTER CONTROL (CONTINUED)

- | | | |
|----|------------------------------|--|
| 6. | Video Display | Optional |
| 7. | Dry Contact Relays | Provides electrical isolation between system and plant environment |

IV. SPECIAL FEATURES

- | | | |
|-----|---|--|
| 1. | Sampling Algorithm | Adapts to changing environment |
| 2. | Multi-level Sampling | Sweeps plant, speeds leak detection, increases number of leaks detected, minimizes employee time in protective devices (masks, clothing, etc.) |
| 3. | Probablistic Sampling | Measures problem areas more often than non-problem areas |
| 4. | Search and Destroy | Helps locate cause of excursions |
| 5. | Minimized Labor and
Support | No daily maintenance or operator requirement |
| 6. | Multi-gas Capability | System can easily be reprogrammed for monitoring additional compounds |
| 7. | Automatic Calculation of . . .
Employee TWA (No charcoal
tubes) | Cost effective, better data on employee exposure |
| 8. | Plant Statistics | Provides actual contaminant statistics on plant environment for more efficient maintenance |
| 9. | Projection of Maintenance . . .
Problems from Statistics | Helps prevent major excursions and keep ambient levels low |
| 10. | 30 Year Record Keeping . . . | Hard copy records available |
| 11. | Class 1, Division 1 Group . . .
C&D, Alarm, and Display
Systems | Yes |

V. ANALYZER SYSTEM

- | | | |
|----|---|---|
| 1. | Sampling System | Large volume tubes with high flow rate, best way to measure remote environments |
| 2. | Measurement Proximity to . . .
Plant Happening | Seconds |
| 3. | Typical Excursion Detection . | 94% depending on plant statistics (GM and GSD) |
| 4. | Typical Time from
Excursion to Detection | Less than 4 minutes depending on plant statistics (GM and GSD) |

FMS^R 7200 SPECIFICATIONS

V. ANALYZER SYSTEM (CONTINUED)

5. Reporting System Complete management-oriented reports on personnel and plant, i.e.
 - a. Exposure alarm
 - b. Eight (8) hour shift
 - c. Twenty-four hour point alarm summary
 - d. Individual monthly TWA
6. Local Visual Alarm Yes
7. Local Audible Alarm Yes
8. Remote Visual Alarm Yes.
9. Wiring Provided for installation optionally
10. Tubing Provided for installation optionally
11. Inplant Sensor Probe Optional, recommend customer procure to EOCOM specifications
12. Valving Manifold Computer control for multi-level adaptive sampling

VI. OSHA

1. System Recognized by. Approved, November 25, 1975
OSHA
2. Eliminates Charcoal Tubes Yes, and includes transient people
and "Grab Bag" Personnel and conditional exposures
Monitoring

OCC 0073