

Series 500 Monitor

Features

- High accuracy & functionality
- Rapid T90 response
- Onboard & PC data logging
- External control signals
- High & low alarm
- Large easy to read display
- Remote sensor capability
- Portable & wall mountable
- Interchangeable sensor heads



Specifications

Base unit

Measurement units
 Reading functions
 Removable / replaceable sensor head
 Onboard alarm
 Alarm mute function & status display
 Low battery indication
 Sensor condition status
 Stand-by mode
 External signal for alarms & control
 External signal functions
 Analogue output
 Power supply
 Rechargeable battery pack
 Permanently fixable
 Remote sensor capability
 Enclosure rating
 Size (with sensor head)
 Weight (with sensor head & battery)

ppm or mg/m³
 Minimum, Maximum & Average
 Yes
 Yes (dual alarm)
 Yes
 Yes
 Yes
 Yes
 Transistor output, 150 mA max
 Low Alarm, High Alarm & Control
 0 - 5 V
 12 VDC, 800 mA
 9.6V Ni-MH (7 hours operation)
 Screw fix or Velcro
 Yes
 IP20 & NEMA 1 equivalent
 195 x 122 x 54 (mm); 7⁵/₈ x 4³/₄ x 2¹/₈ (in)
 < 460 g; < 16 oz

Datalogging

Data interface with PC
 Onboard datalogging (independent of PC)
 Datalogging direct to PC
 Onboard real-time clock
 Datalogging software supplied

Serial RS232
 8,000 data points
 Yes
 Yes
 Yes
 Part 15 of FCC Rules · CE · C-tick
 EN 50082-1: 1997 · EN 50081-1: 1992

Approvals

Perchloroethylene sensor head

Measurement range
 Accuracy
 Resolution
 T50 response
 Reading Update
 Sensor type
 Operating temperature range
 Relative humidity range

0 to 200 ppm perchloroethylene
 < +/- 5 ppm (0 - 50 ppm); +/- 10% (50 - 200 ppm)
 1 ppm
 < 30 seconds
 2 seconds
 Gas-sensitive semiconductor
 -20°C to 60°C
 5 to 95% non-condensating

Available from

Rakic Works	
26 Thomas Street	t 08 8359 4766
Cavan, SA 5094	f 08 8359 4046
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Emissions Monitoring for Dry Cleaners

The principal solvents used in the dry cleaning industry are tetrachloroethylene, most commonly known as perchloroethylene (PERC or PCE) and hydrocarbon (petroleum-based) solvents. These solvents can pose serious environmental and occupational health and safety hazards if leaks and exposure levels are not properly controlled. For example, the potential health hazards from inhaling perchloroethylene vapours above the set limits include headache, drowsiness, loss of coordination, nausea and other more serious side effects.

In Australia and the United States, NIOSH, EPA, OSHA and various local governing bodies regulate solvent emissions and occupational safety and health requirements for dry cleaning operations. These directives require dry cleaners to carry out weekly leak detection inspections and recommend air monitoring to control worker exposure to solvent vapours e.g. a monitoring system which automatically sounds an alarm or activates a ventilation system when solvent levels exceed the occupational exposure limit (OEL). In most states the OEL for perchloroethylene is 50 ppm or 345 mg/m³ (TWA).

Aeroqual Monitors

Aeroqual monitors accurately detect primary and secondary sources of solvent exposure to dry cleaning workers including solvent spills; emissions during machine operation; fugitive leaks from piping and tanks; off-gassing from clothing; and vapors from spotting agents. Our monitors are used by air quality inspectors and dry cleaners to comply with regulations set by NIOSH, OSHA, EPA, NESHAP, New York State DEC and California ARB.

Aeroqual monitors offer dry cleaners affordable peace of mind that their facilities are safe workplace environments for employees in addition to complying with the legal requirements. The range includes fixed and portable monitors that offer quantitative displays of solvent-in-air levels, audible alarms, control outputs for ventilation systems and data logging. Products comply with C-tick, CE and FCC standards.



SM70 Fixed Monitor & Alarm



Series 300 Portable Monitor



Series 500 Monitor & Datalogger

The Aeroqual Advantage

Aeroqual has extensive experience in developing monitoring solutions for a wide variety of gases and solvents including perchloroethylene and hydrocarbon solvents. Aeroqual's solvent monitors represent cost-effective solutions for continuous ambient air monitoring and portable leak detection. Our monitors provide professionals and dry cleaners with these key advantages:

- Peace of mind that dry cleaning facilities are safe workplace environments
- Compliance with NIOSH and federal/state environmental and OSH Regulations
- Fixed or portable ambient air monitoring and fugitive leak detection
- Quantitative data displays, alarms and optional control outputs
- Good value for money and low cost of total ownership
- High accuracy and functionality with easy operation

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