

SM70 Monitor / Controller

Features

- Continuous air monitoring
- Displays level of solvent-in-air
- Alarm sounds at exposure limit
- Relay control output available
- Reliable and simple to operate
- Available for Perc or hydrocarbon



Specifications

Sensor type	Gas sensitive semiconductor (GSS)
Measurement range (perc version)	0 to 200 ppm perchloroethylene
Measurement range (hydrocarbon version)	0 to 500 ppm hydrocarbon solvent
Accuracy	< +/- 10 ppm
Resolution	1 ppm
Operational mode	Continuous
Reading update	2 seconds
Display	0 to 500 ppm (3.5 digit LCD)
Audible alarm (buzzer)	85 dB (typical)
Alarm set point	Activated by dipswitch setting
Relay set point	Activated by dipswitch setting
Default dipswitch setting	off,on,off,on = 50 ppm
Removable / replaceable sensor module	Micro-match connector
Diagnostics	Sensor failure: Relay ON Alarm ON Display = 500
Warm-up sequence	10 minutes: Relay and alarm inactive during warm-up Display = 0 or 1
Operating temperature range	-5 °C to 60 °C
Operating relative humidity range	30 to 70% non-condensating
Power supply	12 VDC, 2.1 mm plug with centre +ve Plug-in AC power adaptor supplied
Relay output	Onboard 240V or 120V / 8A (max)
Permanently fixable	Screw fix
Enclosure size	130W x 94H x 57D (mm); 5 1/8" x 3 3/4" H x 2 1/4" D (in)
Enclosure rating	IP20
Weight	285 g; 10 oz (excludes AC power adaptor)
Approvals	Part 15 of FCC Rules · CE · C-tick EN 61000-6-3: 2001 EN 61000-6-1: 2001

Available from

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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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