



direct readding

Split2 Direct Reading Dust Monitor

Active or passive mode

Datalogging

Using near forward light scattering techniques, direct reading dust monitors have many advantages over other sampling techniques.

Continuous reading of the dust concentration is further enhanced by being recorded via a built in data logger. At the end of the sampling period data can be simply downloaded to a PC or laptop. From there a graphical display of the real time profile can be viewed, manipulated or archived.

This real time monitor is small in size, light in weight, highly user-friendly and can be worn by a person using the built in belt clip.

- By reconfiguring the pumping mechanism and its associated batteries to an optional external pump, we have a truly flexible instrument, which can be used either as a passive or active monitor.
- Depending on your circumstances and what you need to monitor, the choice of either passive or active sampling gives the flexibility for the most effective strategy to be adopted.
- In the passive mode use the Split2 to monitor Respirable dust.
- Add a sample pump to monitor other dust fractions.
- Fixed point or personal sampling ...the choice is yours.

Along with the concentration/time graph the minimum/maximum, Time Weighted Average (TWA) and Short Term Exposure Levels (STEL) will be displayed in milligrams per metre cubed (mg/m^3).

This means that high exposure excursions can be readily identified at any time during the working shift and immediate action taken to rectify the problem.

multidust friendly



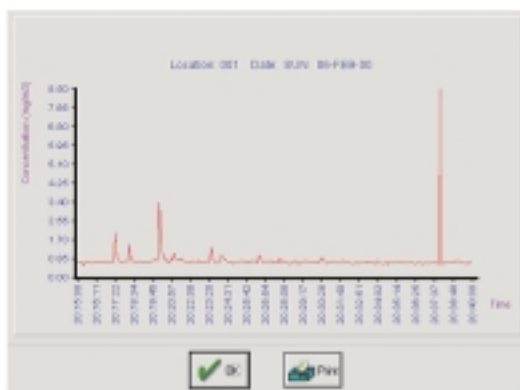
Why choose Split2 ?

Some direct reading units rely solely on the passive movement of air through the sensor, and that's often enough.

Some light scattering instruments are calibrated to Arizona Road Dust, which may have different properties to the type of dust you are monitoring. The **Split2** has the advantage of being compatible with pumped or active mode sampling - just couple it with a sample pump.

Active sampling is carried out through a validated inlet - the IOM Multidust.* So, the Split2 allows concurrent filter samples to be taken at the same time as the sensor is registering the dust concentration.

By using the result from the filter sample, a 'scale' factor can be applied to the unit or the software, which corrects for the type of dust actually being monitored - in other words you can "tune" the instruments response to the type of dust you are monitoring.



Features

- Direct reading dust monitor.
- Personal, workplace or environmental.
- Continuous display of concentration.
- IOM* entry for Inhalable, Thoracic, Respirable, PM.
- User calibration to your own type of dust.
- Windows software allows graphic display of data.
- Minimum, maximum, TWA and STEL readings.

Specifications

- Weight with batteries 1.11kg.
- Size 15.2 x 8.9 x 6.3 cm.
- Sensing range 0.01 to 200.0 mg/m3.
- Accuracy ±10% to NIOSH 0600.
- Precision + 0.02 mg/m3.
- In-line IOM* gravimetric filter cassette.
- Internal temperature compensation.
- Easy four-key menu-driven operation.
- Audible alarm.
- Large, easy-to-read display.

the software

Loaded onto a PC, our easy to use package **SPLITCOMM Software** provides users with a more accurate technique for defining and analysing particles. The software features data plots to allow the professional creation of time vs. concentration graphs, statistical analysis and mathematical correction of particle characteristics (density and refractive index), when the aerosol sample is significantly different from the calibration dust - which is ARD.

SPLITCOMM Software can easily export data into spreadsheet programs for further data manipulation and analysis.

SPLITCOMM is compatible with these Windows OS: 98, ME & NT.

Description	Part No
Split2 Dust Monitoring Kit includes: Split2 monitor, Splitcomm and Dust Data Software on CD-Rom, data cable, built in IOM Multidust inlet and grid, Calibration post, zero filter and rechargeable belt pack and charger	770-300K

SKC Online
We are here to help.
Find information online
www.skcltd.com
e mail - info@skcltd.com

Compatible sample pumps

For simplicity we suggest using the **Sidekick** range
ATEX CERTIFIED



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or the **Airlite**



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Real Time Particulate Monitoring

Haz-Dust I Real Time Particulate Monitor Light Scattering

The portable **Haz-Dust I** is easy to operate and provides airborne particle concentration, in accordance with NIOSH method 0600.

Designed for hygiene, indoor air quality and hazardous materials investigation.



Description	Part No
Haz-Dust I particle concentration ranges from 0.01 - 20 mg/m ³ & 0.1 - 200 mg/m ³	770-1100K

Haz-Dust IV Particulate Monitor *Infra-Red Detector*

The small, personal real time **Haz-Dust IV** displays immediate breathing zone measurement of aerosols and dusts, for industrial hygiene and environmental applications.

Sensing range 0.01 - 2000 mg/m³

Particle size range 0.1 - 100 micron.

Interchangeable sampling heads allow Inhalable, Thoracic or Respirable fractions to be measured specifically.



Description	Part No
Haz-Dust IV Particulate Monitor (Infra-Red Detector) 0.01 - 2000 mg/m ³ & 0.1 - 100 microns	770-4004K
Adapted IOM for Haz-Dust IV	770-115A

Direct Reading

Haz-Dust EPAM-5000 Realtime Environmental Particulate Monitor



The Haz-Dust EPAM-5000 is a portable microprocessor-based particulate monitor suitable for ambient, environmental and indoor air quality investigations.

Using the light-scattering principle, the unit provides realtime monitoring and data recording in mg/m³ concentrations. Interchangeable sample heads allow PM₁₀, PM_{2.5} or PM_{1.0} monitoring.

Concurrent gravimetric sampling on 47mm filter also provided. Run time up to 24 hours on one battery charge - use of software allows download of data to a PC. Rechargeable lead-acid battery and/or AC operation.

Unit housed in a rugged watertight carry case.

Description	Part No
Haz-Dust EPAM-5000 system with PM ₁₀ sample head	770-203K
Haz-Dust EPAM-5000 system with PM _{2.5} sample head	770-202K
Haz-Dust EPAM-5000 system with PM _{1.0} sample head	770-201K

For more information or to arrange a demo call our sales team on **01258 480188**

Haz-Dust VDM-7500 Realtime Environmental Particulate Monitor



Digitally record workplace dust exposure with the Haz-Dust VDM-7500 wire-less video dust monitoring system.

The VDM-7500 measures particle concentrations while simultaneously overlaying dust concentrations onto video images. Through wire-less communication, all data is displayed in realtime on the PC.

Record specific events that are clearly linked to worker exposure. The VDM-7500 provides integration of video and particulate dust monitoring technology for a more dynamic assessment of air contamination and exposure.

Description	Part No
Haz-Dust VDM-7500 system includes realtime particulate monitor, wireless monitor, video camera and customised PC with radio receiver and all software in a carry case	770-7500K

EPAM 5000 Applications

Survey sampling for PM₁₀ and PM_{2.5}

EPA saturation monitoring studies

Wastesite fenceline monitoring

Evaluating pollution controls and equipment

Trend analysis

Emergency response and fugitive emissions

Particulate IAQ studies

Wildfire and controlled burning studies

Urban transportation air quality studies

Determine levels of respiratory protection

Complimentary instrument for environmental and occupational health and safety studies

Haz-Dust VDM 7500 Applications

OSHA compliance of respiratory protection

Compliance programme reviews

Safety audits

NIOSH video exposure monitoring for real-time graphical overlays

Welding fume exposures

Air quality studies

Agriculture

Mining

Pharmaceuticals

Hazardous waste

Insurance / security

Grab Sampling with colour change

Grab sample colour tubes are now available for over 500 hazards. Here is a selection of the most commonly asked-for tubes.

For a comprehensive listing request our free tube selection guide. It covers other hazards and a variety of additional measuring ranges for the common hazards.

These tubes are all to be used with a hand held piston pump. Contact SKC at info@skcltd.com

TechTip

Detector tubes are factory calibrated for a specific flow rate curve provided by a system's pump.

Always use detector tubes with the pump specified by the manufacturer.

Interchanging brands of pumps and tubes can produce a significant reduction in accuracy.



Key

* Tubes to be stored at 40 F (5 C) or below.

† Twin tubes to be combined with primary and analyser tubes.

• Safety Equipment Institute (SEI) Certified Tube.

‡ Requires a separate tube tip breaker and syringe.

c Custom order only. Contact SKC on 01258 480188

Chemical Hazard	Measuring range (ppm)	Part No
Acetaldehyde	5 – 750	810-92* c
Acetic acid	0.125 – 25	810-81L•
Acetic anhydride	0.6 – 15	810-81
Acetone	50 – 12000	810-151L*•
Acetylene	0.05% – 4%V	810-171
Acid gases (acetic acid)	1 – 80	810-80
Acrolein	3.3 – 800	810-93*
Acrylic acid	2 – 50	810-81
Acrylonitrile	2 – 360	810-191†
Acrylonitrile	0.1 – 18	810-191L†
Allyl chloride	0.1% – 3.4%V	810-101L
Amines	1.5 – 280	810-180
Ammonia	2.5 – 200	810-3La•
n-Amyl acetate	10 – 200	810-147
Aniline	1.25 – 60	810-181
Arsine	0.04 – 10	810-19La
Benzaldehyde	2 – 92	810-91L
Benzene	2.5 – 120	810-121•
Bromine	0.05 – 0.8	810-8La
1,3-Butadiene	2.5 – 100	810-174L
Carbon dioxide	300 – 5,000	810-2LL c
Carbon disulphide	0.63 – 100	810-13†•
Carbon monoxide	5 – 50	810-1LL
Chlorine	25 – 1,000	810-8H
Chloroform	0.5 – 27	810-137L*†
m-Cresol	1 – 25	810-61
Diethylamine	5.5 – 110	810-180
Diisopropylamine	5 – 100	810-180
Dimethyl acetamide	1.5 – 240	810-184
Ethyl alcohol	50 – 2,000	810-112L
Ethyl mercaptan	0.5 – 120	810-72
Ethylene	25 – 1680	810-172
Ethylene	0.2 – 100	810-172L
Ethylene oxide	0.4 – 350	810-163L†
Fluorine	1.25 – 50	810-17
Formaldehyde	0.1 – 40	810-91L*
n-Hexane	80 – 2,400	810-105
Hydrazine	0.05 – 2	810-185
Hydrocarbons higher class	100 – 3,000	810-105
Hydrogen	0.5% – 2%V	810-30
Hydrogen chloride	0.2 – 76	810-14L•

Chemical Hazard	Measuring range (ppm)	Part No
Hydrogen cyanide	0.36 – 120	810-12L•
Hydrogen peroxide	0.5 – 10	810-32
Hydrogen sulphide	0.25 – 120	810-4LL•
n-Hexane	10 – 1,200	810-102L
Isopropyl alcohol	0.02% – 5%V	810-113
Mercaptans	0.1 – 8	810-70L
Mercury vapour	0.05 – 13.2 mg/m3	810-40
Methacrylic acid	1.8 – 45	810-81
Methyl alcohol	2 – 56	810-111LL
Nitric oxide	2.5 – 200	810-10†•
Nitrogen dioxide	0.5 – 125	810-9L•
Nonane	130 – 3,900	810-105
Octane	100 – 3,000	810-105
Oxygen	3% – 24%V	810-31B†
Ozone	0.025 – 3	810-18L•
Ozone	4 – 400	810-18M•
Petroleum Naphtha	0.5 – 28 mg/L	810-106
Phenol	0.4 – 187	810-60*
Phosgene	0.05 – 20	810-16*
Phosphine	2.5 – 100	810-7
Phosphine	2.5 – 1,000	810-7J
Phosphine	0.15 – 5	810-7L
Phosphine	0.05 – 9.8	810-7La•
Propionic acid	3 – 75	810-81
Propyl alcohol	65 – 1,040	810-113L
Propylamine	6 – 120	810-180
Pyridine	0.2 – 35	810-182
Stoddard solvent	50-8,000 mg/m3	810-128
Styrene	10 – 1,500	810-124
Sulphur dioxide	0.5 – 60	810-5La
Tetrachloroethylene	1 – 75	810-133L*
Tetrachloroethylene	0.1 – 9	810-133LL*
Thionyl chloride	1.44 – 21.6	810-5La
Toluene	1 – 100	810-122L
Trichloroethylene	0.125 – 8.8	810-132LL
Trimethylamine	3.5 – 70	810-180
Trimethyl benzene	10 – 300	810-123
Vinyl acetate	5 – 250	810-143†
Vinyl chloride	0.1 – 6.6	810-131L†
Vinylidene chloride	0.4 – 40.6	810-130L*†
Xylene	2 – 200	810-122L