

# SPLIT2

## Direct Read-out with Filter Option Using Any 2 L/min Pump



Together with an SKC personal sample pump, the SPLIT2® Real-time Dust Monitor offers high flexibility in personal and area dust monitoring.

The flexible, easy-to-use SPLIT2 Dust Monitor is designed for personal or area monitoring for respirable or inhalable dust. Combine SPLIT2 with any 2 L/min sample pump, a sampling head (GS-3 respirable cyclone or IOM inhalable sampler), and pre-weighed filter for direct read-out and real-time profile of dust concentration and concurrent gravimetric dust sampling.

The SPLIT2 easy-to-read LCD continuously displays concentration in mg/m<sup>3</sup>, TWA, Max, Min, and STEL. Operate the SPLIT2 for over eight hours with NiMH batteries or use the AC charger/adaptor for longer run times.



Used for real-time monitoring or concurrent gravimetric sampling, SPLIT2 is comfortable to wear and does not interfere with daily activity. When configured with a sample pump, the SPLIT2 with built-in belt clip can be placed on one side of a worker's belt and the pump on the other side for maximum comfort. The sensor is mounted near the breathing zone for accurate breathing zone measurement. Handheld wand and tripod accessories are available for area monitoring.

### SPLIT2 Monitoring Applications

- Personal compliance monitoring
- Walk-through surveys
- Background sampling
- Fugitive emissions
- Site dust levels
- Fenceline monitoring
- Filtration systems
- Indoor Air Quality (IAQ)
- Spray booths
- Exhaust fumes
- Roadside dust levels

- **Economical, flexible, and direct reading**
- **Provides concurrent gravimetric sampling when used with any 2 L/min sample pump**
  - Use gravimetric results to program monitor for cross-calibration of displayed results
- **Wide measuring range**
  - 0.01 to 200 mg/m<sup>3</sup> for particles from 0.1 to 100 µm
- **Accuracy**
  - ± 10% to NIOSH Method 0600 using SAE fine test dust
- **Reliable light-scattering technology**
- **Compact and lightweight**
- **Monitors different dust fractions**
  - Use the GS-3 Cyclone for respirable dust
  - Use the IOM Sampler for inhalable dust
  - Use the gravimetric sample for cross-calibration of displayed results
- **Programmable**
  - Easy-to-use 4-button keypad
- **Datalogs up to 21,500 data points**
- **Alarms at hazardous concentrations**
- **Provides TWA and STEL measurements**
- **Easy-to-use DustComm Pro Software for downloading, basic trend analysis, and comprehensive graphical reporting**
- **CE marked**

## Real-time Personal or Area Dust Monitor

### Performance Profile

<b>Sensing Range:</b>	0.01 to 200 mg/m <sup>3</sup> for particles from 0.1 to 100 µm
<b>Accuracy:</b>	± 10% to NIOSH Method 0600 using SAE fine test dust
<b>Precision:</b>	± 0.02 mg/m <sup>3</sup>
<b>Calibration:</b>	NIOSH gravimetric using SAE fine test dust
<b>Operation:</b>	Four-key splash-proof membrane switch; menu driven
<b>Display:</b>	Four-line alphanumeric LCD Real-time concentration in mg/m <sup>3</sup> , TWA, Max, Min, and STEL and concentration/time graph
<b>Alarm Output:</b>	Adjustable intensity, 90 dB at 3 ft
<b>Recording Time:</b>	1 sec to 15 mos
<b>Sampling Rate:</b>	1 sec, 1 min, and 10 min averages
<b>Active Configuration:</b>	Use with a sample pump at 2 L/min
<b>Memory:</b>	21,500 data points
<b>Memory and Time Storage:</b>	> 3 years; up to 999 storage locations
<b>Digital Output:</b>	RS-232
<b>Operating Temperature:</b>	32 to 122 F (0 to 50 C)
<b>Storage Temperature:</b>	4 to 140 F (-20 to 60 C)
<b>Humidity:</b>	95% non-condensing
<b>Power:</b>	NiMH rechargeable battery pack
<b>Operating Time:</b>	8 hrs minimum with full charge
<b>Weight:</b>	1.7 lbs (0.78 kg) with batteries
<b>Dimensions:</b>	<b>Unit:</b> 7.1 x 3.1 x 1.8 in (18 x 8 x 4.5 cm) <b>Sensor:</b> 1.75 x 1.5 in (4.4 x 3.8 cm)
<b>Software:</b>	Compatible with Windows® 2000, XP, ME, or NT

### SPLIT2 Calibration

SPLIT2 is calibrated using SAE fine test dust. The gravimetric filter sample collected can be used to correct real-time data, eliminating the problem of displayed results being accurate only if the dust monitored is similar to SAE fine test dust.

**For information on the IOM, request Publication 1050.**

**For information on the GS-3 Cyclone, request Publication 1711.**

**For economy and ease of use, SKC recommends using the AirChek® 52 with the SPLIT2.**

### Ordering Information

Description	Cat. No.
<b>SPLIT2 Monitor with accessories</b> (passive) includes monitor, lapel bracket, zeroing accessory, calibration standard, computer cable, DustComm Pro Software, NiMH battery pack, AC charger/adaptor (110-240 V), and carry case, for concurrent gravimetric sampling, see kits below	770-300
<b>SPLIT2 Monitoring Kit with IOM</b> (pump not included) includes monitor and all items in Cat. No. 770-300, IOM adapter, and IOM Sampler with cassette and transport clip Cat. No. 225-70A <i>See www.skinc.com for filters and sample pump.</i>	770-300K1
<b>SPLIT2 Monitoring Kit with Cyclone</b> (pump not included) includes monitor and all items in Cat. No. 770-300, GS-3 Cyclone adapter, and GS-3 Cyclone Cat. No. 225-103 <i>See www.skinc.com for preloaded filters and sample pump.</i>	770-300K2
<b>Accessories</b>	
<b>Adapter, automotive</b>	770-301
<b>Zeroing Accessory</b>	770-311
<b>NiMH Charger, 110-240 V</b>	770-320
<b>Cleaning Kit for SPLIT2</b> includes dust-free air canister, swabs, lens tissue, and instructions	770-305
<b>Wand, handheld</b> , mounts to sensor for area monitoring	770-306
<b>Tripod</b> with mounting plate for area monitoring	770-307
<b>Adapter, GS-3 Cyclone</b>	770-313
<b>Adapter, IOM</b>	770-4204

### SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skinc.com/warranty>.