

SPLIT2

Real-time Personal or Area Dust Monitor

- **Economical and flexible**
- **Provides concurrent gravimetric sampling when used with any 2 L/min sample pump**
- **Wide measuring range**
 - 0.01 to 200 mg/m³ 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
 - Use the IOM Sampler for inhalable
 - Use the gravimetric sample to correct data for local dust
- **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 Professional Software provides data analysis**
- **RFI/EMI shielded; CE marked**

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



Together with an SKC personal sample pump, the SPLIT2[®] Dust Monitor provides complete flexibility for all dust monitoring applications.

The economical and easy-to-use SPLIT2 Dust Monitor is designed for personal or area monitoring for respirable or inhalable dust. SPLIT2 is a passive dust monitor that can become an active monitor by combining it with a 2 L/min sample pump and GS-3 Cyclone or IOM sampling head for concurrent real-time dust monitoring and gravimetric dust sampling. The SPLIT2 easy-to-read LCD displays concentration in mg/m³, 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 passively or actively, SPLIT2 is comfortable to wear and does not interfere with daily activity. In the active configuration, 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. Hand-held wand and tripod accessories are available for area monitoring.

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 No. 1050.

For information on the GS-3 Cyclone, request Publication No. 1410.

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

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Performance Profile

Sensing range:	0.01 to 200 mg/m ³ for particles from 0.1 to 100 µm
Accuracy:	± 10% to NIOSH 0600 using SAE fine test dust
Precision:	± 0.02 mg/m ³
Calibration:	NIOSH gravimetric using SAE fine test dust
Operation:	Four-key splash-proof membrane switch; menu driven
Display:	Four-line alphanumeric LCD Real-time concentration in mg/m ³ , TWA, Max, Min, and STEL and concentration/time graph
Alarm output:	Adjustable intensity, 90 dB at 3 ft
Recording time:	1 second to 15 months
Sampling rate:	1 sec., 1 min., and 10 min. averages
Active configuration:	Use with a sample pump at 2 L/min
Memory:	21,500 data points
Memory and time storage:	> 3 years; up to 999 storage locations
Digital output:	RS-232
Operating temperature:	32 to 122 F (0 to 50 C)
Storage temperature:	4 to 140 F (-20 to 60 C)
Humidity:	95% non-condensing
Power:	NiMH rechargeable battery pack
Operating time:	8 hours minimum with full charge
Weight:	1.7 lbs (0.78 kg) with batteries
Dimensions:	Unit: 7 x 3 x 2 inches (18 x 8 x 4.5 cm) Sensor: 1.75 x 1.5 inches (4.4 x 3.8 cm)
Software:	Compatible with Windows® 2000, XP, ME, or NT

Ordering Information

Description	Cat. No.
SPLIT2 Monitor with accessories (passive) includes monitor, lapel bracket, zeroing accessory, calibration standard, computer cable, DustComm Professional Software (Windows 2000, XP, ME, or NT), NiMH battery pack, AC charger/adaptor (110 V), and case. <i>Add a pump for active monitoring.</i>	770-300
SPLIT2 Monitoring Kit with IOM (pump not included) includes monitor and all items in 770-300, IOM adapter, and IOM Sampler with cassette and transport clip (Cat. No. 225-70A). <i>Add a pump for active monitoring.</i>	770-300K1
SPLIT2 Monitoring Kit with Cyclone (pump not included) includes monitor and all items in 770-300, GS-3 Cyclone adapter, and GS-3 Cyclone (Cat. No. 225-103). <i>Add a pump for active monitoring.</i>	770-300K2
Accessories	Cat. No.
Adapter, automotive	770-301
Zeroing Accessory	770-311
NiMH Charger, 220 V	770-312B
Cleaning Kit for SPLIT2 includes dust-free air canister, lens cleaning solution, swabs, lens tissue, and instructions	770-305
Wand, hand-held , mounts to sensor for area monitoring	770-306
Tripod , with mounting plate for area monitoring	770-307
Adapter, GS-3 Cyclone	770-313
Adapter, IOM	770-4204