

# HAZ-SCANNER

## Indoor Environmental Monitoring Station IEMS

- ◆ Direct reading
- ◆ Measures and displays data for up to 14 critical air quality parameters
  - Standard configuration measures 5 parameters including PM10 or TSP particulates, CO<sub>2</sub>, CO, temperature, and relative humidity
  - Add one or all optional plug and play sensors (up to 4) and/or IEMS-specific meters (up to 5) as listed on reverse side. Choose from additional toxic gas sensors, PID for VOCs, and IEMS-specific light intensity, sound/noise, atomic/nuclear radiation, ELF radiation, and air velocity meters
  - Available analog input port for alternative meter
  - Interchangeable size-selective impactors are available for PM1.0, PM2.5, or PM4.0 (close approximation of respirable)
- ◆ In-line standard 37-mm or optional 25-mm gravimetric filter cassette provides concurrent filter sampling for chemical and biological analysis
- ◆ Internal sample pump provides 1 to 4 L/min flows
- ◆ NiMH battery for 8-hour operation, continuous operation with AC power
- ◆ Displays TWA, STEL, Max, and Min
- ◆ Optional alarm indicator light and siren for user-defined threshold limits
- ◆ Removable handheld meters for spot-checking remote areas
- ◆ Datalogging and optional real-time wireless data transmission
- ◆ Easy-to-use graph and reporting software — compatible with PC and Mac

The portable HAZ-SCANNER™ IEMS indoor environmental monitoring station is designed to measure critical parameters for indoor environmental assessments, green building certifications, school zone measurements, job task analysis, and occupational health and safety compliance. The HAZ-SCANNER IEMS displays real-time readings with datalogging capabilities. Configure the IEMS for up to 14 simultaneous critical indoor measurements in one portable instrument. The IEMS can also be configured for wireless data acquisition to allow for continuous unattended sampling up to one mile. Easily download data to a PC or Mac and create compliance-ready graphical reports with the supplied software.



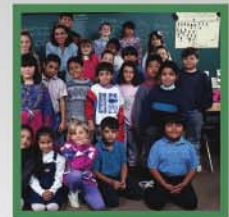
SKC Inc. 724-941-9701

SKC West 714-992-2780

SKC Gulf Coast 281-859-8050

SKC South 434-352-7149

[www.skcinc.com](http://www.skcinc.com)



# HAZ-SCANNER IEMS

## Indoor Environmental Monitoring Station

### HAZ-SCANNER IEMS Applications

- Snapshot air profiles at schools
- Green Building certifications
- Job task analysis
- OSHA compliance
- IEQ assessment



### Ordering Information

Description	Cat. No.
<b>HAZ-SCANNER IEMS</b> includes monitor with PM10 or TSP particulate, CO <sub>2</sub> , CO, temperature, and relative humidity sensors, charger, HazComm Pro Software, cables, CD-ROM with instructions, and carry case <b>C</b> <i>HAZ-SCANNER IEMS is expandable to up to 14 parameters; see sensors and meters listed below.</i>	<b>770-800</b>
<b>IEMS-specific Optional Meters (Choose up to 5), each includes holder to mount meter on tripod accessory</b>	
<b>Air Velocity Meter</b> , 0 to 30 m/s or 0 to 5910 ft/min	<b>770-801</b>
<b>Atomic/Nuclear Radiation Meter</b> , 1 to 19,999 cpm	<b>770-802</b>
<b>ELF Radiation Meter</b> , 1 to 200 mG	<b>770-803</b>
<b>Indoor Light Intensity Meter</b> , 0 to 50,000 Lux/0 to 5000 footcandles	<b>770-804</b>
<b>IEMS-specific Optional Sensors (Choose up to 4) †</b>	
<b>Nitrogen Dioxide Sensor</b> , 0 to 50 ppm*	<b>770-805</b>
<b>Sulfur Dioxide Sensor</b> , 0 to 50 ppm*	<b>770-806</b>
<b>Oxygen Sensor</b> , 0 to 30%*	<b>770-807</b>
<b>Ozone Sensor</b> , 0 to 0.5 ppm*	<b>770-808</b>
<b>Ozone Sensor</b> , 0 to 10 ppm*	<b>770-818</b>
<b>PID for VOCs</b> , 0 to 2000 ppm (isobutylene equivalent)	<b>770-809</b>

† Hydrocarbon sensors and specialty sensors for nitric oxide, chlorine, hydrogen cyanide, and hydrogen sulfide are available. Contact SKC; specify gas type when ordering.

- C** Requires calibration using appropriate calibration gas(es) and regulator sold separately  
\* Additional calibration gas for the specific chemical is required when using additional toxic gas sensors.

Accessories		
<b>Size-selective Impactors</b>	<b>PM1.0</b>	<b>770-811</b>
	<b>PM2.5</b>	<b>770-812</b>
	<b>PM4.0</b>	<b>770-813</b>
<b>Calibration Standard</b> , particulate		<b>770-207</b>
<b>Tripod Stand for HAZ-SCANNER IEMS</b> includes holder for IEMS		<b>770-814</b>
<b>Alarm for HAZ-SCANNER IEMS</b>		<b>770-815</b>
<b>Wireless Radio Modem</b> , 900 MHz, up to 300 feet		<b>770-505</b>
<b>Wireless Radio Modem</b> , 900 MHz, up to 1500 feet		<b>770-505X</b>

### 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.skcinc.com/warranty.asp>.

### Performance Profile

Optimized for indoor environmental quality applications.  
Custom calibration for specific ranges and ambient applications upon request.

Sensor	Measurement/ Concentration Range
<b>Particulates (IEMS sensor)</b>	
<b>90° Infrared Light Scattering</b>	1 to 20,000 µg/m <sup>3</sup> or 0.01 to 200 mg/m <sup>3</sup>
<b>Particle Size Range</b>	0.1 to 100 µm
<b>Particle Size Measurement</b>	1 µm, 2.5 µm, or 4.0 µm (optional) 10 µm or TSP (standard)

Volatiles Organic Compounds (VOCs)	(IEMS sensor)
<b>PID (10.6 eV)</b>	0 to 2000 ppm (optional)

Carbon Dioxide	(IEMS sensor)
<b>NDIR</b>	0 to 10,000 ppm (standard)

Toxic Gases (Electrochemical)	(IEMS sensors)
<b>CO-Carbon Monoxide</b>	0 to 1000 ppm (standard)
<b>NO-Nitric Oxide</b>	0 to 100 ppm (optional)
<b>NO<sub>2</sub>-Nitrogen Dioxide</b>	0 to 50 ppm (optional)
<b>O<sub>2</sub>-Oxygen</b>	0 to 30% Vol. (optional)
<b>O<sub>3</sub>-Ozone</b>	0 to 0.5 ppm (optional)
<b>O<sub>3</sub>-Ozone</b>	0 to 10 ppm (optional)
<b>SO<sub>2</sub>-Sulfur Dioxide</b>	0 to 50 ppm (optional)
<b>Hydrocarbon</b>	0 to 1000 ppm (optional)

Other Parameters	(IEMS-specific meters)
<b>Temperature</b>	0 to 140 F (-18 to 60 C) (standard)
<b>Relative Humidity (RH)</b>	0 to 100% (standard)
<b>Light Intensity</b>	0 to 50,000 Lux/0 to 5000 fc (optional)
<b>Sound</b>	30 to 135 dB (optional)
<b>Atomic/Nuclear Radiation</b>	1 to 19,999 counts per minute (cpm) (optional)
<b>ELF Radiation</b>	1 to 200 milligauss (mG) (optional)
<b>Air Velocity</b>	0 to 30 m/s or 0 to 5910 ft/min (optional)
<b>Wet Bulb Temperature</b>	3.2 to 122 F (-16 to 50 C) (one meter-optional)

HAZ-SCANNER IEMS Instrument Specifications	
<b>Display</b>	LCD
<b>Operation</b>	4-key splash-proof membrane switch
<b>Power</b>	12-V NiMH rechargeable battery
<b>Operating Time</b>	8 hrs on battery, continuous on AC
<b>Display Measurements</b>	TWA, STEL, Max, Min
<b>Recording Time</b>	1 sec to 21 weeks
<b>Sampling Rate</b>	1 sec, 1 min, 10-min intervals
<b>Data Storage</b>	36,000 data points
<b>Sampling Pump</b>	1 to 4 L/min
<b>Digital Output</b>	RS-232 (PC), RS-423 (Mac)
<b>Software</b>	PC or Mac compatible
<b>Dimensions</b>	7 x 4 x 11 in (17.8 x 10.2 x 28 cm)
<b>Weight</b>	6 lbs (2.7 kg)
<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>Wireless Radio Modem</b>	900 MHz (U.S.); 868 MHz (Euro)
<b>Auxiliary Analog Input</b>	0 to 2.5 VDC (1 channel for alternative meter)

