



# SAFEPRO EQUIPMENTS

The Health, Safety & Environmental Company

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## MONITORING EQUIPMENTS

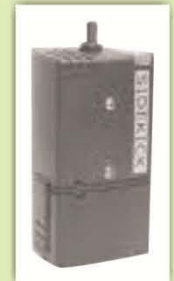
### Personal Dust Sampling Equipment

**DGMS Approved Personal Dust Sampler Model: SideKick 51Ex Make: M/s. SKCLtd., UK**  
Mining operations such as drilling, blasting, moving heavy machinery on haul roads and transportation & handling of coal are the major sources of emissions. High level SPM increases respiratory diseases such as chronic bronchitis and asthma.

The SideKick 51Ex can help make the monitoring process as simple and as accurate as possible.

**As per the DGMS Circular no. 1 of 2004 below are the important points**

- As per DGMS circular Silicon dust has to be analysed and determined at DGMS approved laboratory.
- Flow should be verified periodically
- Preservation of sampled filters item no. 6 of this circular shall be preserved for the period of 3 years for DGMS verification/inspection.)



### Personal Noise Exposure Monitoring Equipment (DGMS Noise Dosimeter)

With increasing mechanization of mining operations and use of heavy machinery the noise level in mines have increased over the years and noise induced hearing loss.

As per DGMS circular no: 3 of 2007 dt: 1-5-2007 noise level surveys including noise exposure dose profile of workers.

DGMS notification no. 14 (16)79-Gen/2413 dt: 22 May 2007 only DGMS approved Noise Level meter should be used.

Hence all mines should use Noise Dose Meter to conduct the required surveys and dose profiles.

**Features:**

- Range: 40 to 143dB peak.
- Frequency Weightings: Slow, Fast, Impulse.
- Upto 4 virtual dosimeters in single instrument.
- 40 hours time history data storage capacity.
- Time History and Statistical Distribution Profiling via Software
- User friendly Calibration at field itself.



### DGMS Approved Local Methane Detector (LMD)

DGMS Approved Local Methane Detector (LMD) with local LCD Display. LMD sensor with local LCD displays and A/V Alarm and built-in Relay having NO/NC points and Auxiliary power supply of 12V 2 A with glands for Cable termination. (along with Battery Backup)

LMD will monitor the CH<sub>4</sub> gas and it will cut-off electricity in case predetermined percentage (0.5) of CH<sub>4</sub> gas exceeds.



## Light Meter

Appropriate light intensity in work place is important for work place for efficient working, poor light intensity can cause accidents, high intensity light can stain the eyes. Hence light intensity measuring is very important and we supply Lux instruments which measures in foot candles / Lux for light measuring solutions.



## Integrated Sound Level Meter

- Basic Integrating Sound Level Meter having facility to measure LEQ
- Designed for measurement of work place noise levels



## Portable Water Analysis Laboratory

Portable lab model visible range Spectrophotometer more than 80 preprograms and 25 user programs for testing of water parameters for all types of water like potable sewerage water, pet bottles water and effluent water etc.

Smart Portable Water Analysis Kit: Portable colorimeter with 80 preprograms, titration test kits, digital pH & conductivity meters along with reagents for the measurement of Ammonia, Chlorine, Bromine, Iodine, Chromium, Copper, Fluoride, Iron, Nitrate, Nitrite, Phosphate, Silica, Sulphate, Sulphide Turbidity, Alkalinity, Carbon dioxide, Chlorine/Salinity, and Dissolved Oxygen.



## Portable Colorimeter

- Portable model with 80 preprograms.
- Filter wave lengths are 430nm, 520nm, 570nm & 620nm.
- With RS-32 serial port and more.



## Turbidity-Meter

- Compact water analysis instalment designed for turbidity, Chlorine and color
- Used for testing turbidity for various water (Raw water, Purified water. Waste water etc)
- Logs memory upto 4000 points.
- Meets USEPA & ISO design criteria as specified by USEPA method 180.1 & ISO



## COD / TN / TP System

- Measure COD using your choice of mercury (USEPA approved method) or non-mercury reagent systems.
- COD Colorimeter is direct reading for on-site water analyses. Features preprogrammed tests.



## BOD System

Most innovative ecological (mercury-free) system with microprocessor utilizing manometric technology.

- Features a stirring system offering non-stop operation without risks of interruption or overheating
- Easy to handle design allows 6 or 10 bottles to be operated at the same time



## Water Level Recorders & Indications

As per CPCB Guide lines Ground Water Levels are depleting day by day. Stringent Regulation are formed for protecting ground water resources. Hence all industries supposed to monitor ground water resources, for which these indicators / recorders will meet the regulations.

These loggers also be used for the Mine Water logging and Pumping areas for Safety Purpose.



## Weather Monitoring System

It is computer based meteorological system designed for data storage and real-time monitoring of water level and weather conditions.

The system includes wind speed, wind direction, Temp/RH, BR Evaporation and water level sensors with all supporting systems and can be configured as per the user requirements. Weather Monitoring integrated with Water level Monitor for Hydrological Services.



## Personal Gas Detector & Multi Gas Detector

Available diffusion single gas monitors for detection of O<sub>2</sub>, CO, SO<sub>2</sub>, H<sub>2</sub> and H<sub>2</sub>S.

- Available multigas monitor for O<sub>2</sub>, CO, H<sub>2</sub>S, LEL.
- Having the feather of external sampling pump explosion proof instruments.
- The excellent water proof/ dust proof structure.
- Explosion proof structure for the safety.



## Real Time Handheld Dust Monitor

Technical Specification of real time dust/particulate Monitor:  
Real Time Personal Dust Monitor/ Analyzer

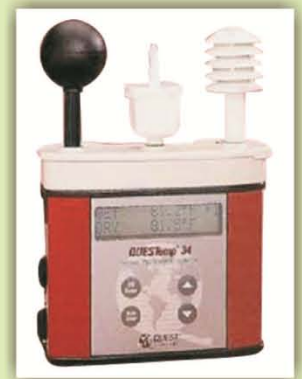
Specification :-

- Immediate display of particle concentration in mg/ m<sup>3</sup>
- Sensing range - 0.01-10 mg/ m<sup>3</sup>.(Min)
- Respirable sampling heads.
- Internal adjustable sample pump - 1 to 3.3 L/ m min.
- In-line cassette directly behind sensor for concurrent filter sampling.
- Use - adjustable threshold alarm.
- Use comfort.
- Dust Comm pro Software for downloading and comprehensive graph reporting.
- Run time over 8 hours.



## Area Heat Stress Monitoring Equipment

**Area Heat Stress Monitor** can calculate and display a WBGT index value that considers the effects of ambient air temperature, humidity, air flow, and radiation heat. Monitors WBGT using three sensors like Dry bulb, Wet bulb & globe.



## Definer 220 Calibrator

Definer 220 is a Primary Flow Meter with Proven Dry Cal Technology engineered for the process measurement community. The definer 220's many customizable options are simple and intuitive. Take measurements one at a time, or automate the process using the hands-free Continuous or Burst modes. In all modes, the averaging function is user-selectable from 1 to 100 measurements. Time profile gas flows with measurement intervals spanning from 1 to 60 minutes. Or, decide how to view data-use the handy Zoom feature to display the size and detail that's right and select preferred measurement units.



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