

STACK SAMPLER

MODEL SSES-SEM-001

Monitoring of stacks and vents are requirement to ensure that emission of air pollutants are within the limit prescribed by regulatory authorities. By regular monitoring of emission one can establish that functioning and performance of installed control system are within the designed limits. Emission data also helps in improving performance of Air Pollution Control System energy saving and helps in optimizing process operation.



Soniya Scientific Stack Sampler SSES-SEM-001 has been developed to fulfill these requirements where user ease and emission monitoring regulations requirement have been given due consideration for reliable data generation.

SSES-SEM-001 is light weight and portable system fitted with suction pump, with digital pyrometer and digital differential meter. Shifting of instrument from one stack to another stack is very easy. Measurement for differential pressure done by using S-Type Pitot Tube and digital differential meter.

High quality leak proofed push fitting for Thermocouple and Pitot tube are used. Two dial type vacuum gauges are provided for onsite monitoring of pressure drop in gas stream and particulate stream separately.

Thimble holder nozzle and probe pipe has been fitted with Viton O Ring for leak proof connection. Thimble holder can accommodate CFT and GFT and Silica thimble with no extra efforts.

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Measurement temperature of outgoing gases after cooling can be done with the help of Thermometer which is placed in the impinger tube.

SPECIFICATIONS:

Stack Gas Temperature	:	Upto 600°C digital pyrometer and 1meter long thermocouple is provided
Thermocouple	:	Thermocouple is made up of SS 304 casing, length of insertion 1.0 m with 2 m long cable with suitable connector.
Manometer	:	Digital with 0-1300 mm of H ₂ O Column
Pitot Tube	:	S-Type pitot tube fabricated from SS 304, 1.0m length extendable to 2m.
Particulate Sampling	:	SPM collection in thimble type filter (with pore size of 1.6µm with collection efficiency for 0.3µm particles 99.7%
Gaseous Sampling	:	Collection of gases @0.3-3lpm in chemicals kept in a set of 120ml capacity borosilicate glass impingers.
Rotameter	:	Plastic body rotameter with 2% FSD accuracy, 0-30lpm for particulate and 0-3 lpm for gases.
Sampling Probe	:	Made from SS 304 tube, 1.0m length extendable to 2.0m Fabricated from SS 304 tube suitable to hold either cellulose
Filter Holder	:	filtration thimble (size 28 mm ID x 100 mm ling) or glass micro fiber thimbles (size 19mm ID x 90 mm long)
Nozzles	:	A set of 3 stainless steel nozzles of different diameter.
Digital Clock	:	0-60 minutes, 1 second readout with start stop and reset functions.
Sampling Train	:	1 Nos of 240 ml capacity and 2 Nos. of 120ml capacity borosilicate glass impingers. Accommodated in SS ice tray, placed on the rear side of instrument panel with a provision to keep ice.
Vaccum Pump	:	Vacuum pump mono block rotary vane type oil filled, 0.5 HP, single phase motor (230 V) with 40 lpm free flow capacity.



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