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### **Osiris, Portable, Direct Reading, Airborne Particle Sampler**

OSIRIS is a general purpose instrument which can be used as a portable instrument or deployed in a semi-permanent installation.

Fitted into a Lamp Post Box, OSIRIS can be quickly deployed to study short or long term pollution hotspots in towns and cities and exceedance areas rapidly determined.

OSIRIS will continuously indicate the concentration of TSP, PM10, PM2.5 and PM1 particles with a resolution of 0.1 micrograms per cubic metre. In its workplace mode, it will indicate inhalable, thoracic and respirable concentrations.

- Battery or mains operation
- Internal sampling pump
- Reference filter for gravimetric calibration
- Inputs for wind speed and direction and traffic counters
- Outputs for inlet heaters and alarms



Standard Inlet:	TSP (1mm stainless Steel)
Heated Inlet (optional):	Heating to 60 deg C
Detector:	Laser Nephelometer
Environmental modes:	TSP, PM10, PM2.5, PM1.0
Workplace modes:	Inhalable, Thoracic, Respirable
Measurement Range:	0 to 6000 micrograms per cubic metre
Detection Limit:	0.01 micrograms per cubic metre
Indicator Range:	0 to 60 micrograms per cubic metre without particle sizing
Particle size range:	0.5 to 20 micron diameter

Particle counting mode:	3 size channels in particle per cc
Flow rate:	600cc per minute
Reference Filter:	25mm diameter GFA circle
Operating temperature:	-5 deg C to +50 deg C
Security:	Password protection
Alarm:	Output for external siren
Display:	Two line alphanumeric with backlight
Data Storage:	Internal with separate battery backup 128KB
Averaging period:	1 second to 4 hours
Battery:	Sealed lead acid, rechargeable, Internal, 6V 2.8 AH
Sampling current drain:	Excluding inlet heater and backlight, 200mA
External Power pack (optional):	80 to 260v AC input, weatherproof
Meteorological inputs:	Wind speed and direction
Other logging inputs	Two 0 to 5 volt analogue inputs
RS232 I/O	9600 baud via PC-Link
Telemetry I/O	1200 baud opto isolated
Wall or Lamp-Post Box (optional):	Lockable Steel
Case protection:	To IP66 (excluding inlet and exhaust)
External Dimensions:	260 x 160 x 150 mm
Weight:	3.5 Kg