During excavation, crushing and demolition dust particles occur which are detrimental to health. Operation of trains, subways, buses, trucks and other vehicles will also give rise to harmful particles.

The INFRA X20DM2 Dust Monitor is a complete sensor for continuous monitoring of particulates in the air. It can be directly connected to Sigicom’s INFRA-measuring system with ready-made solutions for data communications, database on the internet and web presentation of measurement data.

- Measuring range: PM10 and TSP: 0.1–6000 µg/m³
  PM2.5 and PM1.0: 0.01–600 µg/m³

- Measures and adjusts for temperature- and humidity-variations

The measurement is based on a very well-established and safe technology. It has a built-in pump that draws in air to a calibrated laser-based refraction detector. Output is digital and is transmitted directly to a connected INFRA Mini/Master/Micro. This provides a continuous measurement with the opportunity to identify the level of particle concentration.

In the INFRA system, it is possible to trigger an alarm light, to send SMS or e-mail when the particle level is above a preset level.

- Measures simultaneously the concentration of particles PM1.0, PM2.5, PM10 and TSP

- Measuring range PM10 & TSP: 0.1–6000 µg/m³ PM2.5 & PM1.0: 0.01–600 µg/m³

- Alarm level on PM10 concentration: 5–5000 µg/m³

- MCERT certified
### Technical Data

**PARTICLE SIZE**
Measures simultaneously PM1.0, PM2.5, PM10 and TSP (total suspended particles)

**RESOLUTION**
0.1 för PM10 och TSP (channel 1 resp 4)
0.01 för PM2.5 och PM1 (channel 2 resp 3)

**INTERVAL TIME**
1–60 minutes

**ACCURACY**
+-5% of reading traceable to SAE Fine test dust

**FLOW RATE RANGE**
600 ml /min

**INTERNAL BATTERY RUN TIME**
>10 hours when heating is disabled

**EXTERNAL POWER**
100–240V AC 50–60 Hz power supply
Heating 12W

**DIMENSIONS**
370 x 320 x 180 mm (HxWxD)
(14 x 12 x 6 in)

**OPERATING ENVIRONMENT**
-5 °C to +40 °C (23 to 104 °F), 10-95 RH, noncondensing

**MAINTENANCE**
Flow and filter check.
Minor maintenance needed every 3rd month

**WEIGHT**
10 kg (22 lbs)