

DIGITAL DUST MONITOR FOR CONTINUOUS OUTDOOR MONITORING OF PARTICLES IN AIR

# INFRA X20DM2 Dust monitor

The INFRA system is used to monitor construction activities, rock blasting, train traffic, road traffic, vibration in buildings etc.

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  $\mu\text{g}/\text{m}^3$   
PM2.5 and PM1.0: 0.01–600  $\mu\text{g}/\text{m}^3$
- 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 concentrations of particles PM1.0, PM2.5, PM10 and TSP
  - Measuring range PM10 & TSP: 0.1–6000  $\mu\text{g}/\text{m}^3$  PM2.5 & PM1.0: 0.01–600  $\mu\text{g}/\text{m}^3$
  - Alarm level on PM10 concentration: 5–5000  $\mu\text{g}/\text{m}^3$
  - Interchangeable glass microfiber sampling filters
  - 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

---

## SAMPLING FLOW RATE

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)

Product specifications and descriptions in this document are subject to change without notice.

**Sweden**  
info@sigicom.se  
www.sigicom.se

**France**  
info@sigicom.fr  
www.sigicom.com

© Copyright Sigicom 2018  
Doc. nr DS089\_D2550-EnF

**UK**  
info@sigicom.co.uk  
www.sigicom.com

**USA**  
info@sigicom.us  
www.sigicom.com