REAL-TIME DUST MONITOR *TEOM 1405-DF*



The TEOM 1405 Real-time Dust Monitor measures airborne dust, volatile and semi-volatile compounds in real time. It the immediate replacement of the FDMS module equipped TEOM 1400 analyser, a device chosen by many countries for the quality of its measures.

The weighing of the dust collected on a filter after filtration of a known volume of air is the standard method for measuring the mass concentration of dust in the environment.

Two models are available: the 1405-F and the 1405-DF. Depending on the model, several concentrations are programmable (see technical data).





APPLICATIONS

- Environment
- Industrial Production Plant



- Real-time measurement of the mass of the dust deposited on the collection filter
- + TÜV tested and certified
- + Takes into account the volatile and semi-volatile fraction of the particles by technical FDMS
- + Analog Outputs, RS232/485, USB, Ethernet
- Colour touch screen with internal library for maintenance and use
- Rapid response time
- + Easy installation and transportation

REAL-TIME DUST MONITOR *TEOM 1405-DF*



DISPLAYED CONCENTRATIONS	1405-F: available in PM-2,5, PM-10, PM-1, and total dust versions 1405-DF: measures simultaneously 3 granulometric fractions: PM-2,5, PM-10 et PM Coarse
SAMPLE CONDITIONING	Nafion membrane dehydration, 4°C filtration purge
MEASUREMENT UPDATES	Every 6 minutes
REAL-TIME VALUE AVERAGE	60 minutes
LONG TERM AVERAGING	1, 8 and 24 hours
RANGE	0 to 1 000 000 µg/m³ (0-1 g/m³)
RESOLUTION	0,1 μg/m³
PRECISION	+/- 2 μg/m3 (one hour average) +/- 1 μg/m3 (24 hour average)
STANDARD CONFIGURATION	TEOM microbalance with colour touch screen, FDMS stage, input selector (PM-10, PM-2.5, PM-1, TSP), flow separator, vacuum pump, temperature probe, annual consumables
OUTPUTS	 Ethernet, USB, RS232, RS485 8 Analog outputs (0-1 or 0-5 VDC) 2 programmable alarm relays 4 Analog outputs (0-5 VDC)
FLOW RATES	- Main Circuit: 3 lpm - Bypass Circuit: 13,67 lpm
INTERNAL DATA ACQUISITION	Up to 500 000 recordings
DIMENSIONS	- Height: 127 cm - Width: 43.2 cm - Depth: 48.3 cm - Weight: 34 kg
TERMS OF USE	- Suctioned Air Temperature: -40°C to 60°C - Shelter Temperature: 8 to25°C - Power Consumption : 240 VAC, 4 A max
APPROVALS AND CERTIFICATIONS	EN 12341: 1998 (PM-10), EN 14907: 2005 (PM-2,5)



Réf.F98 V1