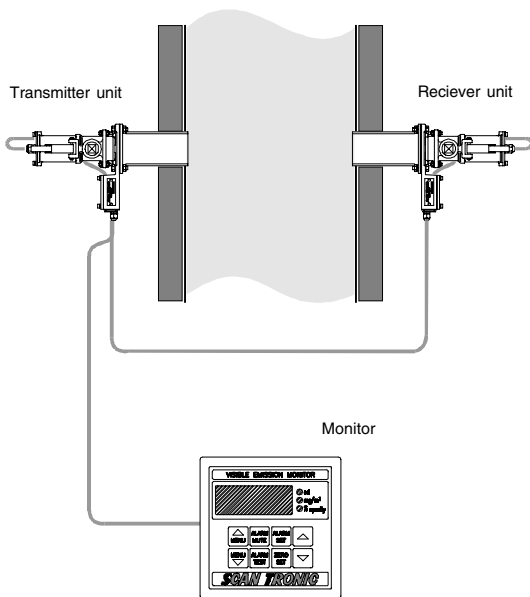


# Particle Monitor

# ODPM 2000

- **No moving Parts**
- **Automatic zeroing**
- **Minimal maintenance**
- **Robust, Hermetically sealed stack units**
- **Simpel installation**
- **Attractive and compact design**
- **Multiple outputs 4 - 20mA, RS 422/485 and contacts**
- **Low price**



## Description:

The Model ODPM 2000 is based on the well proven optical cross duct measuring principle comprising of a stack mounted transmitter and receiver unit with a remote  $\mu$ -processor based monitor. The instrument has been designed to project a stabilised light source and cancel the effect of any ambient light, with the result of providing an accurate and reliable measure of dust within the stack. The monitor performs the additional calculations required to provide a reading of optical density (or extinction) for a direct reading of particulates concentration. The Model ODPM 2000 can be calibrated directly in terms of dust density  $\text{mg/m}^3$ . This is achieved for each specific installation and flue condition by calibrating against a specific measurement of solid emissions by the ISO - Kinetic sampling technique.

Efficient high volume blower units (optional) maintain the optical lenses clean.

## Specifications (Monitor):

Display	4 pcs. 14 mm high seven segment L. E. D.'s		
	Reading (by key pressing) switched between:		
	Optical density	0-999	
	Particle density	0-999 $\text{mg/m}^3$	
	Opacity	0-100 %	
Outputs:	Analog Output 1:	4 - 20 mA	max. loop resistance 500 ohm's
	Analog Output 2 (optional):	4 - 20 mA	max. loop resistance 500 ohm's
	Digital Output:	RS 422/485 interface.	
	Relay Output:	Potential free contacts carrying 4 A at 240 Vac	
Accuracy:	Better than $\pm 1$ % of scale		
Ambient temperature:	0 - 50 °C		
Supply Voltage:	240 (110, 220) Vac $\pm 10$ % 50/60 Hz		
Consumption:	6 VA		
Alarm:	Setting:	0 - 99 % of scale continuous set.	
	Delay:	5 seconds	
	Display:	Flashing	
	Resetting:	Relay released. Display flashing until value below set value.	
	Test:	100 % of scale simulated by turning transmitter off.	
Dimensions	H x W x D:	98mm x 98 mm x 167 mm	
Fitting:	Housed in a DIN 43700 (Q 96) case suitable for panel mounting complete with terminal compartment at rear of the base.		
Temperature range:	- 10 - 60 °C.		
<b>Specificationer (transmitter / reciever unit):</b>			
Fitting:	On a flange ending a 76mm (3") diameter extension tube with standard length's of 150, 300 or 450 mm.		
Dimensions	L x W x H:	190 mm x 110 mm x 192 mm	
Purge-air connections:	1" Tube Tread		
Distance between transmitter and reciever:	0,3 - 6 Meter		
Interconnection cabel lenght	Up to 100 meter between transmitter reciever and monitor.		
Temperature range:	- 10 - 60 °C.		

From the same supplier:

Oxygen Trim Regulator

OTC 2000 is a P.I.D. regulator that provides optimum com-bustion throughout the bur-ner's full area of operation.

Fail Safe

FS 2000 'Fail Safe' offers approved and reliable RPM control of combustion airfans.

High-Temp. Extraction System

ETS 2000 Offers oxygen measurment in gases upto 1400 °C and higher - also in harsh environment.

Oxygen Indicator

OC 2010 Precise, fast reacting and sturdy oxygen indicator with alarms and safe control capabilities. Includes the OS 2000 probe.

Electric panels

Complete electric panels - a full range from the most simple to state-of-the-art computerized solutions with illustrative mimic diagrams.

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