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TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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MODEL EC - 3 MINI OXYMETER WITH INBUILT PUMP

THE INSTRUMENT

TECHNOVATION MINI-OXYMETER MODEL EC-3 is a LOW-COST instrument which measures % oxygen in a sample gas. It has a three digit display, 12 mm high and with 0.1 % steps. Sample gases are easily educted by the inbuilt pump. Rechargeable Ni/Cd batteries power the instrument. The instrument is supplied with a filter tube, a separate probe and battery-charger. It has a wide variety of applications

FEATURES

- Internal pump
- Rechargeable battery powered
- Low Batt. Indicator
- Small, light- weight, portable digital monitor.

APPLICATIONS

It can be used as a COMBUSTION MONITOR by measuring the % O₂ in exhaust flue gases. For the % O₂ analysis in process gases or safety applications.

COMBUSTION PRINCIPLE:

In a combustion process a fixed amount of O₂ combines with Hydrocarbons (H or C atoms) to provide heat. If excess air is present, it does not react in the combustion process but passes out of the chimney carrying away heat and lowering of combustion efficiency.

Thus, if the % oxygen (excess air) in the flue gas is minimized compatible with the equipment parameters then optimization of combustion is achievable. Also, the exhaust flue gas temperature gets lowered thereby confirming that excess air heat-loss has been minimized resulting in better combustion efficiency and fuel saving.

METHOD OF SAVING FUEL

FUEL SAVING in boilers and heaters is achievable by starting with an excess air situation and then gradually reducing air/fuel ratio of the burners, by reducing excess air to the practical minimum level, while avoiding smoke, and thus improve the combustion efficiency.

Percentage combustion efficiency tables related to % O₂ & temperature readings of the flue-gas can be used to estimate, on-the-spot, likely savings of fuel oil. afford a unique long-term cost-benefit to the user.

LOW-COST & DEPENDABLE



TECHNOVATION® MODEL EC-3

BENEFITS: Mini oxy meter EC-3 enables the user to measure and maintain % O₂ (excess air) at the optimum level leading to maximum fuel-savings. Operations are quick, easy and accurate. The low-cost long-lasting oxygen sensor incorporated together with other spares afford a unique long term cost benefit to the user.

STANDARD SPECIFICATIONS

Range	: 0 - 25 %
Sensor type	: Electrochemical
Life expectancy	: 24 months in air.
Display	: 3 1/2 digit LCD
Accuracy	: ± 2 % FSD at constant temperature & pressure
Resolution	: 0.1% steps.
Gas Eduction	: By inbuilt pump through probe
Power source	: Rechargeable Ni/cd battery
Working temp.	: 5° to 50°
Gas temperatures:	: 450 °C max. at eduction point. 40°C max. at sensor
Response	: T90 Less than 10 Secs
Humidity	: 10 to 90% RH non-condensing
Calibration	: By Ambient air
Size	: 130 x 65 x 65 mm
Weight	: 500 gms

ACCESSORIES

Carrying case, Probe assembly (Copper tube, Silicon rubber tube & Disc Filters), Battery

OPTIONAL EXTRA

High temperature probe 1000°C.