



TECHNOVATION Analytical Instruments Pvt.Ltd

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CERT. NO. 217910

MODEL ECIR-1 ELECTROCHEMICAL & INFRARED COMBO ANALYSERS

THE INSTRUMENT

THE TECHNOVATION MODEL ECIR-1 is a dual gas analyser measuring % oxygen, and an energy absorbing gases like Carbondioxide, Methane , Carbonmonoxide and others. Readings are independently displayed on a 3¹/₂ digit 12mm high LCD. The gas probe is a single copper tube combined with a filter. This instrument is for intermittent use. However with a suitable external sample gas treatment system it can be used continuously .Some ranges / gases measured by infrared principle are given in the table.

FEATURES

- Electrochemical Oxygen sensor.
- Infrared sensor CO , CO2 , CH4 etc...
- High performance, and reliability with low maintainence.
- 220 VAC 50 HZ OR optionally rechargeable battery powered.
- Internal pump with high suction. Instant readings

APPLICATIONS

These instruments find use in Furnaces, Boilers, Agro, Pharmaceutical and other industries for measurement and control of the atmospheres therein or process parameters.

STANDARD SPECIFICATIONS

OXYGEN

- Range : 0-25 % in 0.1 % steps.
 Sensor : Electrochemical.
 Expected life : Two years in air.
 Calibration : Oxygen- using ambient air.
 Accuracy : ±2 % at constant temperature and pressure.

SECOND GAS

Any one gas & range from table

- Principle : Infrared sensor
 Accuracy : ± 5% of scale
 Sensor life : No consumables, no moving

MEASURE AND CONTROL YOUR PROCESS PARAMETERS



TECHNOVATION® MODEL ECIR-1

GENERAL

- Size : 198 h x198 b x 250 d mm.
 Weight : 3 kg
 Ambient : Temperature 5 - 50 °C
 Relative humidity : 10 - 90 % RH
 Warm-up time : 5 minutes
 Internal pump : Suction 8” hg col
 : Flow 1.0 l/min
 Flow indicator : Provided
 Power : 220VAC 50Hz.
 Output : 0 - 1 Volt

ACCESSORIES

- Carrying case : Provided with portable instruments only

OPTIONAL EXTRAS

- Power : Rechargeable battery with battery charger and low battery indication.
 Gas Treatment : Sample gas treatment system as per customers requirement
 Output : 4 -20 mA (loop res < 200 Ohms)

IR GAS	RANGE	RESOLUTION
CARBONMONOXIDE	0 - 100 %	0.1 %
CARBON DIOXIDE	0 - 5 %	0.1 %
METHANE	0 - 100 %	0.1 %
OTHER GASES & RANGES ON REQUEST		