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ISO 9001:2015



Cert. No. QMS0720020347

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 gas like Carbondioxide, Methane, Carbonmonoxide and others, They are displayed on a 3 ½ Digit, 12 mm high LCD individually. 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 maintenance.
- Mains operated on 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 range
Sensor life : No consumables, no moving parts

MEASURE AND CONTROL YOUR PROCESS PARAMETERS



TECHNOVATION® MODEL ECIR-1

STANDARD SPECIFICATIONS CONTINUED

Size : 198 H X 198 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 column
Flow : 1.0 Liter/minute
Flow indicator : Provided
Power : 220 VAC, 50 Hz.
Output : 0 - 1 Volt

ACCESSORIES

Carrying case : Provided with portable instruments only.

OPTIONALS EXTRA

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