



ESTD. 1990

## TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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ISO 9001:2015



Cert. No. QMS0720020347

# MODEL SP-5 CZ $\mu$ P BASED PANEL MOUNTED MINI OXY-METER

## THE INSTRUMENT

THE TECHNOVATION MODEL SP-5CZ OXYGEN ANALYZER is  $\mu$ P based and has a specially designed sampling configuration with an oxygen sensor at the end of a cable that makes it feasible to accurately measure Oxygen at a gas manifold while the instrument is panel mounted up to a distance of 10 meters away from the sensor. Calibration is accomplished conveniently by atmospheric air.

## FEATURES

- $\mu$ P based , just three key operation.
- ZERO and CAL potentiometers provided
- 2 Alarm LEDs
- Confidence flash provided
- Low sample volume required
- Quick and accurate response to Oxygen
- Easy to operate by any person.
- Programmable Alarms configuration, Both alarms high OR one high and one low. Settable throughout the range
- Recorder output 0 - 1 V and 4 - 20mA

## APPLICATIONS

MODEL SP-5 CZ is specifically designed for use in Oxygen / Nitrogen plants where the vented gases are mainly Nitrogen / Oxygen. Monitoring the vent gases could tell when the % oxygen in nitrogen stream or vice versa has reached an abnormally high or low % necessitating corrective action within the plant's operational parameters so as to reduce the wasted gas and increase output. A single percent of oxygen reduced in the vent gases would increase the production by the equivalent amount leading to a one percent improvement in the plant's production

## STANDARD SPECIFICATIONS

Display	: LED 12 mm high, with 3 digit
Range	: 0 to 25 % OR 0-100% O <sub>2</sub>
Resolution	: 0.1 %steps
Accuracy	: $\pm 2$ % FSD at constant temp & pressure
Power Supply	: 220 VAC, 50 Hz, 1 Phase.
Sensor type	: Electrochemical
Sensor mounting	: At end of cable of 1.5 Mts.
Working temp	: 0 to 45 °C

## CHECK THE % OXYGEN IN PROCESS



## TECHNOVATION® MODEL SP-5 CZ

### STANDARD SPECIFICATIONS CONTINUED

Calibration	: By ambient air or certified calibration gas
Size	: 98 x 98 x 100 mm depth
Weight	: 1 Kg. Approx.
Sensor life in AIR	: 24 months Expected
Alarms	: Two audible & visible.
Alarm relay	: One set NO, C, NC contact of 50 VA rating provided per alarm.
Panel cutout size	: 90 x 90 mm
Analog Output	: 0-1 V and 4-20 mA.
Flow	: 0.1 – 0.2 LPM

## ACCESSORIES

Panel mounting clamps, Flow through cap, Cal. Screwdriver. Instruction Manual, Tubing

## OPTIONAL EXTRA (To be specified while ordering)

Sensor Cable	: Cable length 10 meters Max.
Sensor	: Internal with Fittings for 6 mm OD PU tube
Range	: 0 to 100 % oxygen (Expected sensor life 4-5 months)
Resolution	: 0.01% below 10% O <sub>2</sub> , with range 25%
Supply	: 24 VDC