



TECHNOVATION Analytical Instruments Pvt.Ltd

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CERT. NO. 217910

MODEL PIR - 89 PORTABLE NDIR TYPE INDICATORS

THE INSTRUMENT

The Model **PIR-89** is a Non-Dispersive Infrared portable gas indicator designed for on the spot sampling of carbon dioxide or methane. The IR sensor is internally mounted in pumped mode and an internal pump is provided to draw the sample. The standard model works on a rechargeable battery. This portable instrument is available with digital readout.

FEATURES

- Sensor internally mounted in pumped mode
- Non-dispersive infrared (NDIR) sensor
- Solid State throughout
- Fast warm-up
- Digital readout with LED display
- No effect of background gases
- No moving parts in sensor
- Portable light weight with rechargeable batteries & battery charger

APPLICATIONS

PERSONAL SAFETY: Checking ambient breathing air in closed Rooms Vessels or Tanks for excess of Carbon Dioxide.

PROCESS SURVEILLANCE: Greenhouses and Mushroom Farms, Wineries and Breweries.

FUEL SAVING: Maximising CO₂% in flue gas.

STANDARD SPECIFICATIONS

Display	: 3 ½ digits - 12 mm high LCD. With back light and switch
Gas	: Any one gas as per table.
Range	: Any one range as per table.
Resolution	: 0.1 % steps.
Accuracy	: ± 2 % FSD at constant temperature
Repeatability	: 1 % of range.
Response	: 90% in 20 seconds.
Sensor type	: Non-Dispersive Infra-Red
Working temp	: 5° - 45°C
Relative humidity	: 0-95 % non-condensing.
Sampling method	: By using in-built pump
Sampling	: Intermittent – spot checking
Pump suction	: > 4" hg Column
Pump Flow	: 1 liter per minute

PORTABLE N.D.I.R INDICATOR



TECHNOVATION® MODEL PIR – 89

Flow Indicator	: Provided. 0 –3 l/m
Calibration	: With certified calibration gas.
Low Battery	: Low battery alarm provided.
Power standard	: 12 V Rechargeable battery
Size (± 12 mm)	: 21cm x 21cm x 8cm deep
Weight	: 2 kg (± 250 gm)
Housing body	: Aluminum
Battery Charged	: On 220V AC mains through adaptor.

GAS	RANGES
CO ₂	0 - 5 %, 0 - 10 %, 0 - 20 %
CH ₄	0-5% , 0 - 100%
GAS & RANGE TO BE SPECIFIED WHILE ORDERING	

CONTROLS

Zero setting & Calibration potentiometers, On/Off, Pump & Backlight Switch.

ACCESSORIES

Protective Carrying Case, External Battery Charger , 2 m Tube, Calibration screw driver, Instruction Manual

OPTIONS

Power : 220 VAC 50 Hz

OPTIONAL EXTRA

- Recorder output
- 0 - 1 volt corresponding to full range of instrument.
 - 4 - 20 mA for mains operated instruments only.