



ACCURRA-S 3090

Purity OXYGEN Analyser

Applications

O₂ Plants

O₂ Concentrators

Purity Measurements

Inward Quality Check

O₂ Storage Tanks

O₂ Certifications

O₂ measurement above 90 - 100% is susceptible to Ambient Pressure and Temperature variation. A day and night ambient pressure variation can give rise to 10 % error in O₂ reading. To overcome this error ACCURRA-S 3090 has Ambient Pressure and Temperature compensation. With these compensations the error is minimized to less than 0.5%. This makes it the most accurate analyser in the market for O₂ Measurement in 90 – 100% range.

Salient Features

In-built Temperature Compensation

In-built Fine Filter & Flow Indicator

Backlit LCD Display
20 x 4 Character

Calibration Check Facility

4-20mA output range is USER configurable over entire measurement range

In-built Ambient Pressure Compensation

Calibration History
(to know Drift / Residual Sensor Life)

Isolated 4-20 mA Output;
Dual Range with Range ID relay output

Password Protected Calibration, Setup & Diagnostics Menu

Alarm Set Points are USER configurable & can be set as Lo - LoLo / Lo - Hi / Hi - HiHi

Intrinsic Error less than $\pm 0.5\%$

Output Freeze / Follow during Calibration

Alarm and Fault History

Specifications

Model Variant	3090
Measurement Range	0 - 100 % O ₂
Sensor Technology	Electro Chemical
Sensor Life	> 2 Years
Minimum Range	0 - 21%
Display Resolution	0.01 %
Intrinsic error (Accuracy)	± 0.5 %
Repeatability	± 0.5 %
Response Time-T90 @ 1 LPM	< 20 Sec

Sample Condition

Suitable for Non- Corrosive, Non-Toxic, Non Flammable, Non-condensing dry, free from entrained oil.

In case your Sample does not comply to the specifications, please contact us for a Sample Conditioning System that is customised to your application needs.

Sample Flow rate: 1 LPM (Recommended)
ACCURRA -S has in-built Sample Flow indicator however the flow has to be regulated externally by user.

Sample Temperature : 5° C - 45° C Max

Sample Pressure: 2 - 10 psig Max
The Sample Pressure has to be regulated externally by the user.

Sample Dust/Particulate: < 3 Micron
ACCURRA -S has in-built Sample Filter however if the dust level is high install upstream Filter externally.

Sample Dew Point: 5° C less than the lowest ambient Temperature

Material in Contact with Sample : SS316, Viton, PTFE, Glass, Aluminium, Acrylic.

Environmental Conditions

Ambient Temperature:	+5°C to + 45°C
Storage Temperature:	+0°C to + 50°C
Area Classification:	Safe Area

Notes: - The final responsibility to check whether this product meets the requirement of the Process and / or Analyser remains solely with the customer.
- M/s SARVESH ANALYTICS PVT. LTD. has a policy of continuous improvement of product & services and hence reserves the right to change the specifications and features without prior notice.

SARVESH ANALYTICS Pvt. Ltd.

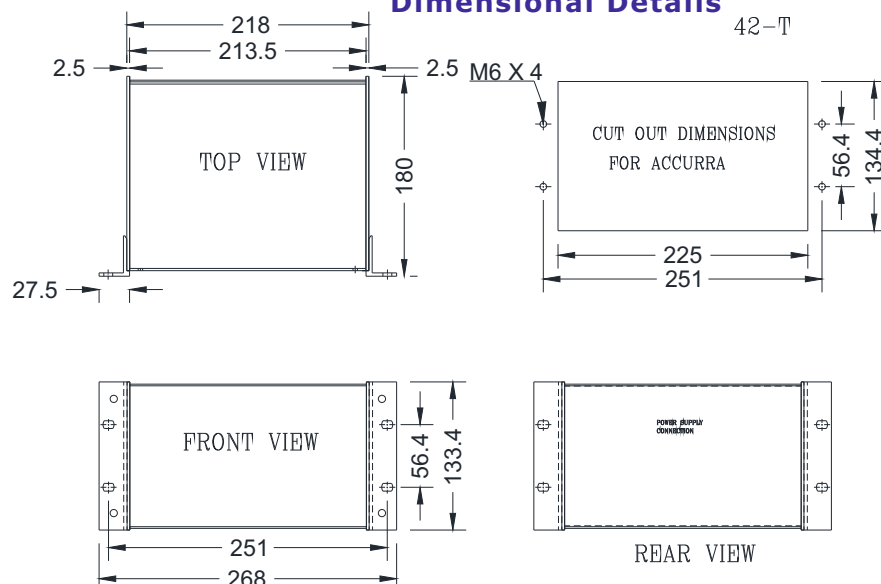
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Dimensional Details



Salient Features

Output Freeze Function

The 4-20mA and Alarm Relays can be hold to last value during Calibration Check / Calibration. This is a user configurable feature.

Dual Range Current Output

Two ranges can be defined by user for 4-20mA output e.g. 0-100% and 90-100%. When the reading is below 90% the current output will correspond to 0-100%. When the reading crosses 90% the current output will correspond to 90-100% and vice versa. The Range ID Relay can be used for remote indication.

History

Calibration and Alarm records are stored. This is helpful in analysis of process. Calibration History helps to know Drift / Residual Sensor Life.

Diagnostics

The ACCURRA-S has inbuilt hardware diagnostic check which can be used for various hardware simulation during failure.

Other Specifications

Gas Inlet / Outlet	1/4" OD SS316
Enclosure	19" Rack / Panel mounted
Dimension	134 (H) x 270 (W) x 180 (D) mm
Protection	Suitable for Safe Area, IP 20
Weight	Approx. 4 Kgs
Power Supply	100 - 240 V AC 50/60 Hz, 45W

