

# comlada

Breathe Confidence.

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**GORD**

المنظمة الخليجية للبحث والتطوير  
GULF ORGANISATION FOR RESEARCH & DEVELOPMENT

Continuous Indoor Air Quality (IAQ) Intelligence  
Powered by GORD Innovation





## TRANSFORM SPACES WITH SMARTER AIR INSIGHT

Comlada revolutionizes indoor environmental health by integrating GORD's unmatched sustainability expertise with advanced Air Quality Monitoring System(AQMS). Engineered for real-time surveillance of up to 20 critical parameters, it empowers facility managers to elevate occupant well-being and maintain compliance with leading global green standards (GSAS-OP, GSB Healthy Building Label, WELL, and equivalents). By combining premium, configurable sensors, intelligent network logic, and an intuitive dashboard, Comlada delivers precise, actionable IAQ insights.

Installation is a breeze—each unit is up and running in under ten minutes, continuously measuring gas and particulate pollutants alongside essential environmental metrics. With secure, remote access to live data and device controls, Comlada places the power of impactful air quality decisions in your hands, anytime and anywhere.

### REAL-TIME MONITORING

Continuously tracks gases, particulates, and environmental conditions to support occupant well-being and green building compliance (GSAS- OP, GSB, WELL, and more).

### FAST, HASSLE-FREE SETUP CONTROL

Installs in under 10 minutes—no complex wiring or configuration needed

### POWERFUL, CONFIGURABLE TECHNOLOGY

Combines high-precision sensors, intelligent network logic, and an intuitive

### CONTROL ANYTIME, ANYWHERE

Secure remote access to live data and device settings puts air quality management at your fingertips.

## FEATURES

### COMPREHENSIVE MONITORING



### HIGH QUALITY IOT ARCHITECTURE



### PRECISION & RELIABILITY



### SMART ANALYTICS



### DEPLOYMENT FLEXIBILITY



### CUSTOMIZABLE DASHBOARD



## TECHNICAL ADVANTAGE

Real-time tracking of up to 20 parameters: PM2.5, PM10, CO<sub>2</sub>, TVOC, Formaldehyde, O<sub>3</sub>, CO, CH<sub>4</sub>, SO<sub>2</sub>, NO<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, O<sub>2</sub>, H<sub>2</sub>, Illuminance, Noise, Temperature and Humidity.

Robust high-quality sensors with RJ45 Ethernet, Wi-Fi and 4G/LTE.

±0.5°C temperature accuracy, ±3% RH humidity precision, ±5% full-scale gas accuracy, and auto-calibration for critical gases (e.g., SO<sub>2</sub>, NH<sub>3</sub>). Durable ABS casing suitable for -10°C to 55°C.

GORD's proprietary analytics platform offers trend analysis, real-time alerts, and automated compliance reporting (CO<sub>2</sub><800 ppm, TVOC<500 ppb).

Ceiling or wall mounted sensors powered by 220V AC .

Desktop/Laptop and Mobile App.

## COMMERCIAL ADVANATGE

Single-device solution significantly reduces sensor costs and installation complexity, delivering substantial cost savings.

Ensures future-proof scalability, ideal for large campuses, malls, commercial high-rises, and expansive facilities.

Reduction in calibration costs compared to competitors; backed by a comprehensive 1-year warranty

Cut energy bills by via data driven ventilation

Rapid installation: <10 mins. Zero infrastructure overhaul.

# WHY COMLADA



## IDEAL FOR THESE APPLICATIONS

Comlada adapts seamlessly to diverse environments—empowering smarter healthier, and safer spaces with real-time air quality intelligence.

Corporate HQs:  
Enhance productivity through optimized CO<sub>2</sub>/O<sub>2</sub> levels

Educational Institutions: Ensure safe classroom environments with PM2.5 and CO<sub>2</sub> alerts.

Hospitals: Mitigate risks from pathogens and formaldehyde exposure

Hospitality Industry: Maintain high air quality standards by managing TVOC and odor.

Public facilities – Malls, Libraries, places of congregation etc

Labs: Immediate alerts for hazardous gases like H<sub>2</sub>S and CH<sub>4</sub>.



# BENEFITS

## Remote Device Management

Centrally configure, monitor, and control multiple sensors from your office, home, or on the go.



## Seamless Updates

Receive over-the-air updates with zero manual intervention.



## Resilient Data Handling

Automatic local data buffering during network outages, with instantaneous synchronization once connectivity is restored



## Intuitive Dashboard

Access a user-friendly web and mobile interface for live monitoring, customizable alerts, and detailed reports.



## Rapid Deployment

Plug-and-play installation—each unit is operational in under 10 minutes, minimizing downtime.



## Lock-down Security

All communications employ secure token-based authentication to safeguard your data.



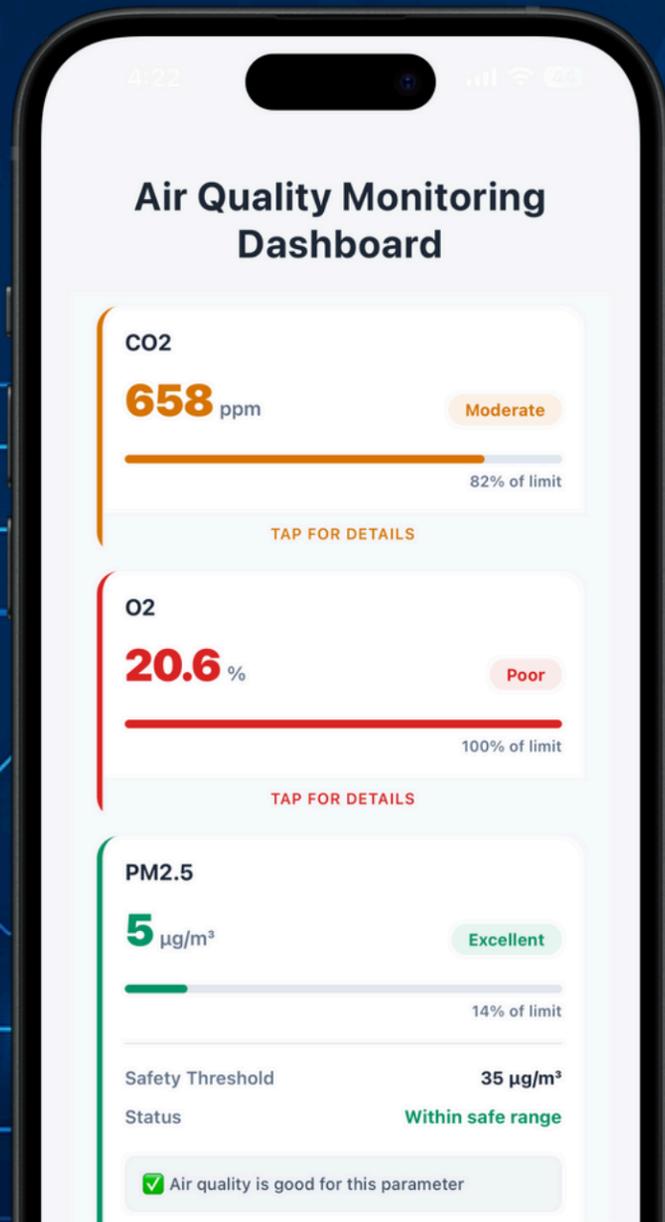
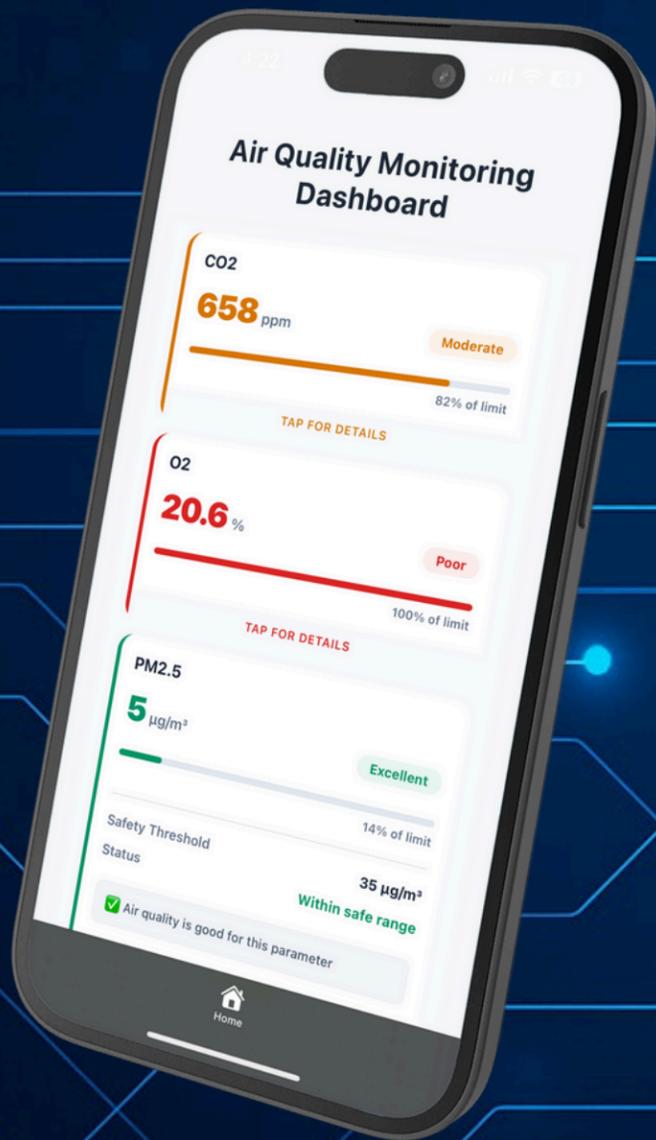
# TECHNICAL SPECIFICATIONS

PARAMETER	RANGE	ACCURACY
Air temperature	-40 °C ~ +80 °C	±0.5 °C (25 °C)
Air humidity	0 ~ 100 %	±3% RH (60%RH, 25 °C)
Air pressure	0~120 kPa	±0.15 kPa @ 25 °C 101 kPa
Illuminance	0~200,000 Lux	±7% (25 °C)
Noise	30~130 dB	±0.5%dB
PM2.5	0~1000 ug/m <sup>3</sup>	±3%
TVOC	0~60,000 ppb	±8% FS(@C4H8,50000ppb,(25 °C,) 50%RH)
CO <sub>2</sub>	0~5000 ppm	±(50ppm+3%F-S)@(25°C,400~5000ppm)
Formaldehyde	0~5 ppm	±5% FS
Ozone	0~10 ppm	±6%FS(@5ppm,25°C,50%RH)
O <sub>2</sub>	0~30% Vol	±2%FS
PM10	0~1000 ug/m <sup>3</sup>	±3%
CH <sub>4</sub>	0~100LEL	±5% FS
CO	0~1000 ppm	±5ppm or ±10%
NO <sub>2</sub>	0~20 ppm	±5%FS
SO <sub>2</sub>	0~20 ppm	±5%FS
H <sub>2</sub>	0~1000 ppm	±5%FS

PARAMETER	RANGE	ACCURACY
Heat index	20 °C ~ 65 °C	±0.5°C (calculated from air temperature) & humidity accuracy
Wet bulb temprature	15 °C ~ 35 °C	±0.5°C (calculated)
Humidity ratio	10 °C ~ 100 °C	±3% RH (60%RH, 25 °C)
TSP	0~20000µg/m <sup>3</sup>	±%20 or ±30µg/m <sup>3</sup> , whichever is greater (@1,000 µg/m <sup>3</sup> ,25°C,50% RH)
Odor	0~5ppm	±5%FS(@H2S,500ppb)
Smoke	0~10000ppm	±5%FS(@C3H8,2000ppm,25°C,50%RH)
NH <sub>3</sub>	0~100ppm	±8%
H <sub>2</sub> S	0~100ppm	±2ppm or ±10%



# MONITORING DASHBOARD (MOBILE & WEB)



Stay connected anytime, anywhere with our monitoring dashboard — accessible on both mobile and web. Track real-time air quality, receive instant alerts, and make informed decisions at your fingertips.

LET'S WORK  
TOGETHER...

**PILOT PROGRAM:**

Test Comlada at  
your facility.

**CUSTOMIZATION:**

Tailor dashboards  
to GSAS / WELL /  
GSB Healthy  
Building Label /  
Equivalent KPIs.

**SUPPORT:**

Technicians &  
24/7 monitoring  
portal.

