O2

Oxygen O2

ON / OFF

POWER

10:02   Jan 04

Oxygen O2

192.168.1.220

2909018JL

O2   FC C€ ⌀

Intelligent System to the new level of
freedom and reliability

OXYGEN O2
INTERNET OF THINGS

O₂
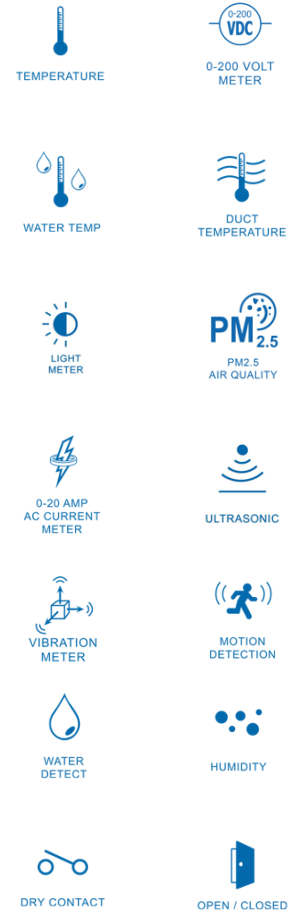
TECHNICAL SPECIFICATION

Power supply	13V DC ±10% | 110-230V 50Hz/60Hz AC UL
Power safe	Li Battery 4 AH[optional], Auto-shut down super capacitor protection
Working memory	1GB | 2GB | 4GB
Storage	64GB class 3
Extended storage	256GB SSD [Optional]
Cloud	Amazon AWS Dedicated server
Out put control	**8x** 10A 220V | 5A 30V DC, Dry contact out
Working Temperature	– 10℃ up to 60℃
Connectivity	IEEE 802.11.b/g/n/ac wireless LAN 2.4GHz and 5GHz Bluetooth 4.2/BLE, faster Ethernet
Processor power	Quad-core processor, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
Ports	**1x** HDMI 1.4, **4x**USB 2.0 ports
Input / Output	**8x** Dry contact out put Digital out **8x** Digital logical input - Isolated industrial **128x** Digital input expansion over i2C [optional]
Dimension [HxWxD]	46mm x 482mm x 90mm
External connections Protocols	I2C, 1Wire, TCPIP, Wifi, MODBUS[optional], Zigbee[optional] Zwave[optional], MQTT, GPIO, HDMI-Audio video, 433Mhz RF
Integration	amazon echo, Google Home, Apple Home kit, Grafana, HTML5, NODE JS, Python, MQTT, Node Red, Artificial Intelligence

Icons: TEMPERATURE, 0-200 VOLT METER, WATER TEMP, DUCT TEMPERATURE, LIGHT METER, PM2.5 AIR QUALITY, 0-20 AMP AC CURRENT METER, ULTRASONIC, VIBRATION METER, MOTION DETECTION, WATER DETECT, HUMIDITY, DRY CONTACT, OPEN / CLOSED

Monitoring Application

Exit Door monitoring
Facility monitoring
Temperature monitoring
Sound level monitoring
Environment monitoring
Light intensity monitoring

CO2 monitoring
Water detect
Moisture level monitoring
Altitude, Vibration
GPS location sensing
Atmosphere pressure sensing

Control Application

Office Automation
Home Automation
Out door lighting
Robotics, Automation
Programmable logical Control
Lighting/Motor control

IF THEN DO THIS
Input vs Output control
Timer control
UAE Adan system
Centralized audio player
Timed Audio player

MULTIPLE INTEGRATIONS

MQTT, REST, Grafana, Google Home, zigbee, Works with Apple HomeKit, aws, HTML5
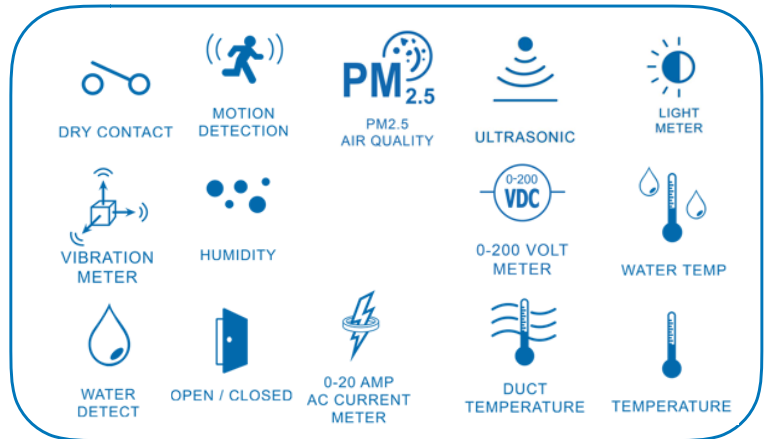
CONTACT

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OXYGEN O₂
AREA OF APPLICATION

O₂

DRY CONTACT | MOTION DETECTION | PM2.5 AIR QUALITY | ULTRASONIC | LIGHT METER

VIBRATION METER | HUMIDITY | 0-200 VOLT METER | WATER TEMP

WATER DETECT | OPEN / CLOSED | 0-20 AMP AC CURRENT METER | DUCT TEMPERATURE | TEMPERATURE

Application Area	Monitoring / Control
Shopping malls Hyper market/ Super market Retail chain Warehouses Commercial buildings	Fire Exit monitoring, Temperature on critical areas, Various location temperature measurements, Critical area safety, Entrance and exit with live snapshot, General area lighting control, Power status monitoring, Power consumption monitoring, Centralized monitoring and control, Monitor from anywhere, Critical information reporting, Shop attendance - Full featured Dash board for centralized monitoring
Residential building	Home devices control, Automations, Voice activated controls Amazon ALEXA, Google Home, Apple Home kit integration Unified control for all smart electronics devices Energy meters, Monitor your energy consumption
Gardening	Automatic water irrigation, Environmental monitoring Monitoring and Fully automated control, Valve control
Villa complex Airport , border security	Perimeter monitoring with laser lights / IR waves, Snapshot sending with IP Camera with 0.2 sec delay Messenger integration and LIVE update, Instant Photo Remote alarm, Visual and audible alarm, ultra fast response
Food vehicle	Live temperature monitoring, Centralized monitoring and control
Parking Building	**CO2** Monitoring, Environmental monitoring Temperature Humidity, CO, CO2, Light intensity, Air quality Lighting control, Exhaust air control, entry and exit vehicle snapshot from 4 /6 angle for safety and proof. Any custom solution.
Freezers	Centralized freezer temperature monitoring and control
Other	Any general purpose automation, timed controls, Automatic lighting

SENSORS

Contact Sensor
Temperature sensor
Humidity sensor
Carbon monoxide sensor
Vibration sensor
Water detect Sensor

Current Sensor
Energy meter
Voltage meter
Motion detector
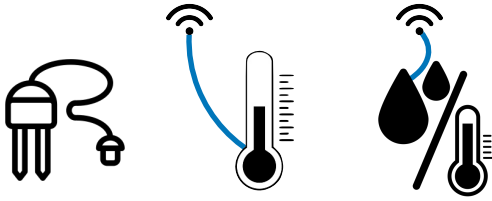Sound level sensor
GPS sensors

MULTIPLE INTEGRATIONS

MQTT | {REST} | zigbee | Works with Apple HomeKit | aws | HTML5
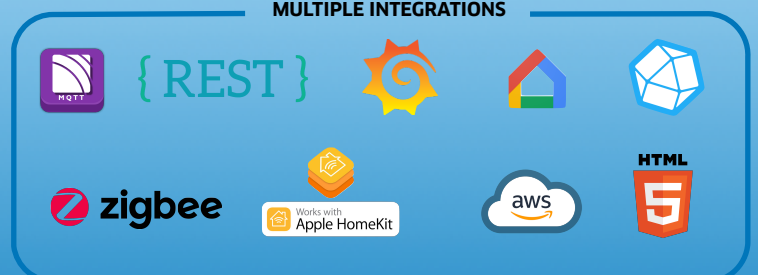
ENVI MONITORING
Temperature| Humidity | moisture etc

MOTION DETECTION
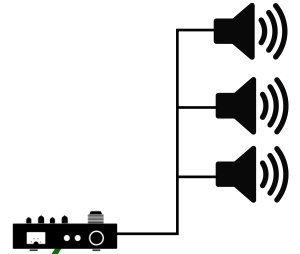Human body movement detection | General movement

AUDIO SERVER
As a multi-zone audio player | Fully automated audio/video source

LIGHT SENSOR

STATE MONITORING
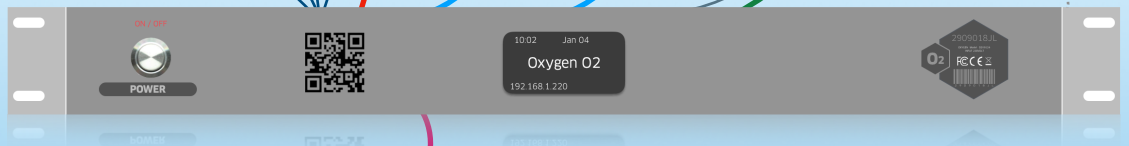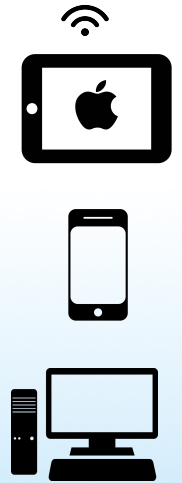Exit doors / Door sensors - Door state monitoring
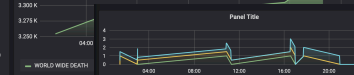
ENERGY MONITORING
Voltage, current, power monitoring

INTERNET DATA
Internet data analysis | live reporting | news feeds | messengers | Social media

ON / OFF
POWER

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WORLD Wide COVID
TOTAL CONFIRMED   95810
CURRENT   39519
DEATH   3297
RECOVERED   53016

INDIA COVID
TOTAL CONFIRMED   29
CURRENT   26
DEATH   0
RECOVERED   3

UAE COVID
TOTAL CONFIRMED   28
CURRENT   23
DEATH   0
RECOVERED   5

World wide Covid cases
World wide deaths

Panel Title
Panel Title
Panel Title
Panel Title
Panel Title
KWH   115
237

H   Report   ARM   SET   R   D

Bed room1   Bed room 2   Passage 2   24 °C Room Temp

18 °C SAVE   Bed A/C   Living 1   Living 2
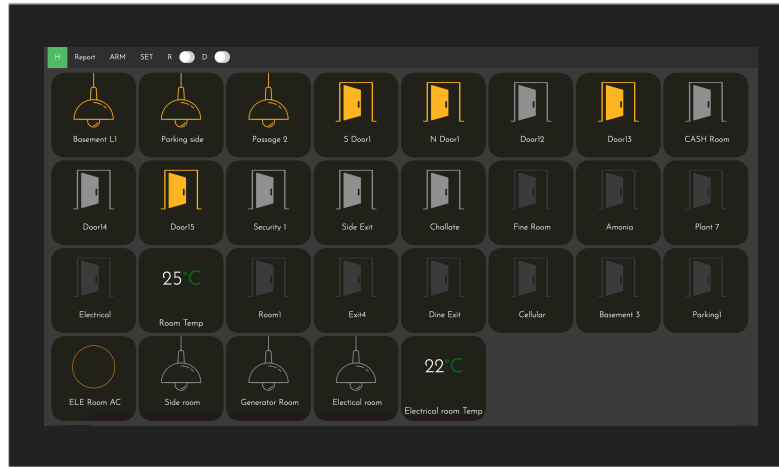
Passage 1   22 °C Room Temp   16 °C SAVE   Living A/C

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EXIT DOOR MONITORING

INTERNET DATA

Internet data analysis | live
reporting | news feeds |
messengers | Social media

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