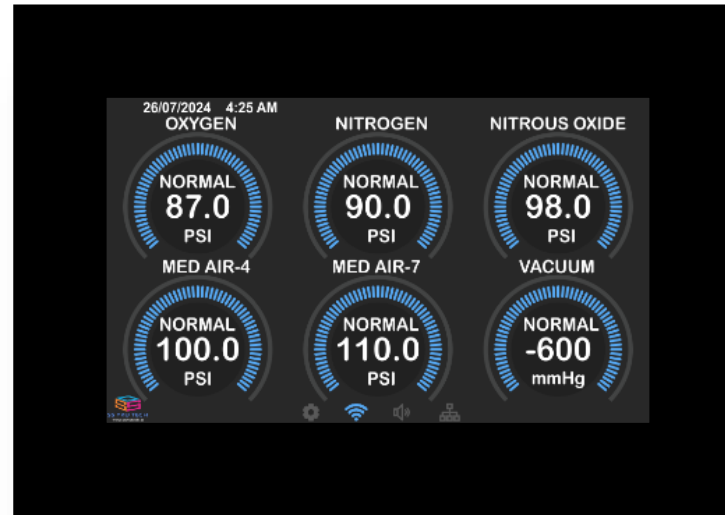




MEDICAL GAS AREA ALARM



Application

Smart Medical Gas Area Alarm actively monitors your gas on highly visible 7"/10"/15" TFT LCD Touch Screen. It comes with Wi-Fi communication, Alerts can be sent via Email, Message, Telephone call to the maintenance engineer or Operator for proactive monitoring.

Features

- Wide range of 7"/10"/15" inch HMI Touch Screen HD Display with Password protected interface.
- RISC-V based process technology
- PSI, mmHg or BAR display (programmable)
- User configurable "HI" and "LOW" set-points
- Smart Area alarm available in 1 to 6 gases
- Wi-Fi & MODBUS connectivity
- Monitor gas pressure low & high set points, real-time alerting for any abnormalities.
- Transmit data wirelessly from the device to cloud for remote monitor.
- Maintenance team will automatically receive Telegram message during any abnormalities.
- Temperature and humidity sensors enabled.
- Complaint with HTM 02-01 and NFPA 99
- Building management Software (BMS) compatible



DIMENSION



Dimension : 250 x 180.5 x 96.5 mm (Length x Height x Width)

TECHNICAL SPECIFICATION

Design and Display

- Dimensions: 204 x 149 x 84 mm
- Weight: 5000 grams
- Materials: Mild Steel(MS)
- Colors: Ivory

Display

- Type: Thin film transistor (TFT), Circular
- Size: 7"/10"/15" inches (diagonal)
- Resolution: 1024 x 768 pixels, 304.13 (H) x 228.10 (V) mm
- Brightness: Up to 300 nits (typical)
- Touch: Resistive type
- Proportion:16:9

Performance

- Chip: RISC V
- CPU: 2- core (1 performance, 1 efficiency)

Storage Options

32 GB SD Card - Available for 10"/15" Inch Display

Operating System

RTOS

Connectivity

- Option: Wired without IOT, Wired with IOT-4.0
- Point to Point Wireless with IOT-4.0, Point to Point Wireless without IOT
- Range – 100 meters

Additional Features

- Audio Alert: Voice Alert, Beeper
- External Alert: Hooter AC 240V
- IOT Alert: Telegram, E-Mail

Sensor Specifications

- Gas Type: Oxygen (O2), Nitrous Oxide (N2O), Carbon Dioxide (CO2), Nitrogen (N2), Medical Air4 (Air4), Medical Air7(Air7), Vacuum(Va), Agss(Ag)
- Detection Method: Semiconductor
- Sensitivity: 0100% LEL (Lower Explosive Limit)
- Response Time: <3 seconds
- Pressure Range: Gas Type Positive (0 to 10 bar, 0 to 150 psi)
- Gas Type Negative (0 to 750 mmHg)
- Gas Sensing Range: Minimum One Gas
- Maximum Six Gas

Oxygen Purity Sensor

optional

Environmental Sensor

- Temperature Sensor
- Humidity Sensor

Timekeeper

Inbuilt Real Time Clock (RTC)

Oxygen Purity Sensor

- Available for 10"/15" Inch Display
- Sensor type: ultrasonic (life span 5+ years)

Environmental Sensor

- Temperature Sensor
- Humidity Sensor

Accuracy

Gas concentration measurement (e.g., $\pm 5\%$ of reading).

Environmental Specifications

- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Humidity: 090% RH (noncondensing)
- IP Rating: IP65 (dust tight)

Alarm Specifications

Alarm Type: Visual, Audible

Alarm Levels

- Low Alarm: 20% of full scale
- High Alarm: 90% of full scale
- Alarm Relay: Normally Open (NO), Normally Closed (NC)

Power and Communication

- Power Supply: 120/240V AC
- Power Consumption: 15W
- Communication: RS485, Modbus