

Digital Display Area Alarm Panel Microprocessor Based



APPLICATIONS

| | |
|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> | Oxygen |
| <input checked="" type="checkbox"/> | Nitrous Oxide |
| <input checked="" type="checkbox"/> | Vacuum |
| <input checked="" type="checkbox"/> | Air 4 Bar |
| <input checked="" type="checkbox"/> | Air 7 Bar |
| <input checked="" type="checkbox"/> | Carbon Dioxide |
| <input checked="" type="checkbox"/> | Nitrogen |
| <input checked="" type="checkbox"/> | Hospitals |
| <input checked="" type="checkbox"/> | Wards / OT Complex |

ON THE WEB

| | |
|-------------------------------------|------------------------------|
| <input checked="" type="checkbox"/> | Sell Sheet |
| <input checked="" type="checkbox"/> | Technical Brochure |
| <input type="checkbox"/> | Engineering Specification |
| <input type="checkbox"/> | Instruction Manual |
| <input type="checkbox"/> | Typical Installation Drawing |

Description

MGA-4-ONA4V

Aneer offers absolutely reliable auto alarms with reputed make pressure sensors and microprocessor to monitor current status of central medical gases supply & vacuum system and trigger dual alarm in case of any deviation from the predetermined set parameters. These alarms alert the user with an audio and visual alarm for Medical Gas Pipeline System which can be conveniently located to any area / zone / operating rooms / ward areas / ICU / CCU.

MGA Series is digital microprocessor based alarm system and sensing is done through highly sensitive pressure sensor.

The Panel has been designed for integration with the Master Alarm of central information system which have 16 zone display facility. Although nominal pressure is pre-set in factory, but high & low alarm triggering range can be varied through re-set button in consultation with the healthcare personnel.

The Gas Alarm Systems can be ordered for any combination of medical gases including Vacuum and configured accordingly to a maximum of six gases in the factory prior to shipment.

External power adapter that accepts 240 V AC (50 Hz) as the input voltage and delivers output voltage of 12V DC, required only for auditory & visual signals.

The auditory signal can be cancelled only by the "MUTE" button or fault correction and once pressed the audio will remain mute for 15 minutes. However, the red display will blink and continue to indicate abnormality as long as a fault condition exists. Reset is automatic with the correction of the fault condition.

Key Features

- Microprocessor Based Password Protected System with on-site alarm range setting feature
- Fail Safe Pressure Sensors
- Digital Display of Pressure with Both High & Low Alarms with Test & Mute Switch
- Visible Signals with GREEN Light "NORMAL" and RED "HIGH" or "LOW" conditions
- Display Character of 0.5" red LED character
- Dual Audio Alarm with Buzzer -approx 70 dB

Advantages

- Gas specific Temperature compensated silicon pressure sensor.
- Operating temperature range -40°C to 85 °C
- Humidity : (Dry gases) 0% to 95% RH, non-condensing
- Accuracy : ±0.25 % Full Scale Span, Total error band : ±2 % Full Scale Span
- High / Low Set points can be adjusted by two on board push buttons
- "PUSH TO TEST" & "MUTE" buttons are easily accessible to operate and test the unit
- Alarm have no moving parts and require no maintenance after initial installation. Dust protected enclosure
- Option for Wall or concealed mounting
- Provided with potential free contact (5 V DC) for integration with the Master Alarm

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DIN EN ISO 9001 : 2008 Organisation

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Comparison Between Gas Alarm Panels


| Sr No. | Digital Gas Alarm Panel | Other Indigenous / Analogue |
|--------|---|--|
| 1. | Microprocessor Based System | Electrical System |
| 2. | Large Digital Display of Line Pressure in PSIG. <ul style="list-style-type: none"> • Thus any abnormality in Line Pressure is easily detectable. • Easily read from a distance | No Display of Line Pressure <ul style="list-style-type: none"> • Thus abnormality in line pressure is Display of Line Pressure with Pressure Gauge <ul style="list-style-type: none"> • Can not be read from a distance • Any abnormality in line pressure is not easily detectable |
| 3. | Works with Reputed Pressure Sensor <ul style="list-style-type: none"> • Thus no change in accuracy for a very long time. • Only minor adjustment may be necessary after two - three years and that can be done without opening any panel. | Works with Pressure Switch only <ul style="list-style-type: none"> • Thus is not reliable for long trouble free service • Requires frequent adjustment of spring loading. |
| 4. | Gives Both High & Low Final Alarms | Gives Low Alarm Mostly |
| 5. | Acknowledgement Switch is Timed <ul style="list-style-type: none"> • Thus if the system remains unattended even after acknowledging the abnormality in line pressure, the user is reminded about the abnormality | Acknowledgement Switch can not be Timed <ul style="list-style-type: none"> • Thus once acknowledgement switch is pressed, the alarm remains inactive for unknown time. Thus the user is never reminded about the abnormality. |
| 6. | All the switches operate with time delay <ul style="list-style-type: none"> • Thus accidental pressing of switch is avoided | None of the switches operate with time delay <ul style="list-style-type: none"> • Thus accidental pressing of the switches can not be avoided. |
| 7. | Operates on 5V DC | Operates on 24V DC / AC |

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Technical Information

| MEDICAL GASES & MEDICAL SERVICES | NOMINAL PRESSURE ISO 7396 - 1:2007 | TRIGGERING ALARM* | |
|---|---------------------------------------|-----------------------------|------------------------|
| | | LOW | HIGH |
| Oxygen, Nitrous Oxide, Medical Air, Carbon Dioxide | 58 psi (4 bar) | Not < 58 psi (4 bar) | Not > 72 psi (5 bar) |
| Air / Nitrogen for Surgical Tool | 116 psi (8 bar) | Not < 101 psi (7 bar) | Not > 145 psi (10 bar) |
| Vacuum | 300 mm Hg (5.8 psig) | Not < 260 mm Hg (5 psig) | - |

Ordering Information

MGA - -

| No. of Service in Single Panel | Inscribe |
|--------------------------------|----------|
| One | 1 |
| Two | 2 |
| Three | 3 |
| Four | 4 |
| Five | 5 |

| Gas Service Required | Inscribe |
|----------------------|----------|
| Oxygen | O |
| Nitrous Oxide | N |
| Air 4 Bar | A4 |
| Air 7 Bar | A7 |
| Vacuum | V |
| Carbon Dioxide | C |

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