

ALARMS

FOR MEDICAL GAS PIPELINE SYSTEM

1 GAS ALARM



5 GAS ALARM



5 GAS ALARM



2 GAS ALARM



CRONUS Microprocessor Based Digital Alarm

URANUS Analogue Alarm

AKTIV Technologies offer two auto alarms to monitor current status of Central Medical Gases Supply & Vacuum System and trigger dual alarm (Audio & Visual) in case of any deviation from the predetermined set parameters. These alarms can be conveniently located to any area / zone / operating rooms / ward areas / ICU / CCU in consultation with the health care personnel to signal the user with an auditory and visual alert of the MEDICAL GAS PIPELINE SYSTEM (MGPS)

CRONUS is a digital microprocessor based alarm system and sensing is done through highly sensitive transducer, while

URANUS is an analogue Alarm which sense the set pressure deviations through pressure switch

CRONUS has been designed for integration with the Master Alarm of central information system which have 16 zone display facility. For detail refer to Aktiv Master Alarm literature. 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 health care personnel.

Both the Gas Alarm Systems can be ordered for any combination of medical gases including Vacuum and configured accordingly to a maximum of six gases for CRONUS and five gases for URANUS 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.

Mounting:

Medical Gas Pipeline Connection:

CRONUS:

1/2" BSP Nut & Nipple Wall & Conceal

URANUS:

3/8" BSP Nut & Nipple

(Wall only)

Caution: To ensure that specific Gas and Vacuum are connected to the Alarm ports

Dual Alarm : Audio Alarm : Buzzer- approx 70 dB

Visible Signals : GREEN Light "NORMAL" and RED "HIGH" or "LOW" condition.

Display Character : 0.5" red LED character, two figure for gases and three-figure for Vacuum

CRONUS Features :

Gas specific Temperature compensated silicon pressure sensor (Transducer).

Operating temperature range - °C [°F] : -40 [-40] to 85 [185]

Humidity: (Dry gases) : 0% to 95% RH, non-condensing

Accuracy : ±0.25 % Full Scale Span

Total error band : ±2 % Full Scale Span

Display Character : 0.5" red LED character, three-figure

High/Low set points - Set points shall be adjustable 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 to keep Power Adapter external or park inside the unit.

Option for Wall or concealed mounting

Provided with potential free contact (5 V DC) for integration with the Master Alarm

Technical Information:

Medical Gases & Medical Services	Nominal Pressure BS ENISO 7396 - 1:2016	Triggering of Alarm*	
		Low	High
Oxygen, Nitrous Oxide, Medical Air, Carbon Di-oxide	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 >145psi(10 bar)
Vacuum	300 mm Hg (5.8 psig)	Not <260 mm Hg (5 psig)	- - - - -

*Factory settings. Range can be altered in consultation with the healthcare personnel.

Ordering Information:

MEDICAL GASES & VACUUM SERVICES	CRONUS	URANUS
2 GAS - OXYGEN & VACUUM	6062140	6062240
3 GAS - OXYGEN, MEDICAL AIR & VACUUM	6063150	6063250
3 GAS - OXYGEN, NITROUS OXIDE & VACUUM	6063160	6063260
4 GAS - OXYGEN, NITROUS OXIDE, MEDICAL AIR & VACUUM	6063170	6064270
5 GAS - OXYGEN, NITROUS OXIDE, MEDICAL AIR, AR 7 & VACUUM -	On Request	6065180
6 GAS - OXYGEN, NITROUS OXIDE, MEDICAL AIR, CO2, AR 7 & VACUUM -	On Request	Not available
NOTE : Power adapter 230V AC / 12 V DC is supplied with the Alarm.		

URANUS and CHRONUS have been designed to meet the Class IIb requirements of MDD 93 / 42 / EEC and amendment MDD / 2007 / 47 / EC.

DISCLAIMER: Aktiv Alarms meet and exceed the requirements of relevant standard at the time of manufacture. However piping source, capacity, sizing and restrictions may prevent from attaining the stipulated value.



AKTIV TECHNOLOGIES

Sohna Flyover, Commercial Area, Opp: Devilal Park, Sohna More, Ballabhgarh,
Faridabad: 121004 (Haryana) Phone : + 91 1294062304, + 91 9811224348
E-Mail: aktivtechnologies@gmail.com, www.aktivtechnologies.com



Consult Instruction for use