

Medipoint 125 Central Alarm Medical Gas Alarm System

SPECIFICATION

Medical Gas Central Alarm System

The Medipoint 125 is a flexible, customisable medical gas central alarm system. The Medipoint 125 system is capable of carrying up to fifteen gas services, and can consist of up to thirty-two panels, including any relay interfaces. The medical gas central alarm shall fully comply with the requirements of HTM2022, HTM 02-01, C11, BS EN 60601-1 and BS EN 60601-1-2 and BS EN ISO 7396-1

The cover, back box and bezel (if required) shall be polyester powder coated in a RAL9010 30% gloss finish. A single tamperproof fastener shall be used to gain access to the hinged door. The hinge shall operate through a minimum of 1200 to provide adequate access.

Antimicrobial Additive

User accessible parts such as the back box, bezel and alarm fascia cover shall include a silver antimicrobial additive for inherent antimicrobial protection.

System Operation

Configuration of the Medipoint 125 shall be done via switches on the panel, allowing easy and flexible configuration. Each panel shall display and / or input up to five gas services or up to twenty point alarms.

Each gas service shall consist of a bank of five dual-circuit LED indicators, one green (for a "Normal" indication) and three yellow and one red (for four input conditions) as standard, although panels shall be customisable for individual requirements. The gas service inputs shall be connected to a five way connector block.

The alarm shall monitor the cable connection from the source equipment, and provide a fault alarm in the event of a short circuit or open circuit fault. This shall be distinguishable from a source equipment fault.

There shall be a test facility to check the integrity of all the LED indicators on the panel, and the audible alarm. The test facility shall also provide diagnostic information to aid in fault finding.

An adjustable volume audible alarm shall be fitted to the panel to allow installation in all environments, and there shall be a facility to connect the alarm to a remote sounding unit to repeat the audible alarm at other locations, for example a nurse base at the other end of a ward.

There shall be a mute facility which silences the audible alarm for a period of fifteen minutes, or until another alarm condition occurs. There shall be a selectable option to indicate to other repeater panels around the system that an alarm condition has been acknowledged and appropriate action is being taken.

A volt free contact shall be provided to output normal/fault status for the panel.

Panel Operation

Each panel shall be wired on to a dedicated data transmission cable and shall be permanently connected to the "Essential Supply" within the hospital via a 3A double pole switched fused spur.

Each gas service will display a green "Normal" indication when all four conditions are not in a fault condition. When an input condition faults, the respective LED shall indicate the type of failure.

Any data communication errors shall cause a "System Fault" alarm.

A rechargeable battery shall provide a "System Fault" alarm in the event of a power failure. Source equipment shall connect directly to the input alarm panel. It is not acceptable to install a separate connection box to convert switch signals to a data signal.

Medipoint 125 Relay Interface

The Medipoint 125 Relay Interface is an optional add-on accessory for the Medipoint 125 Medical Gas Alarm System. The Medipoint 125 Relay interface provides relay outputs to allow connection of alarm conditions to a Building Management System (BMS), paging system, or an auto dialler. The medical gas area alarm shall fully comply with the requirements of HTM2022, HTM 02-01, C11, BS EN 60601-1 and BS EN 60601-1-2 and BS EN ISO 7396-1.

The cover, backbox and bezel (if required) shall be polyester powder coated in a RAL9010 30% gloss finish. A single tamperproof fastener shall be used to gain access to the hinged door. The hinge shall operate through a minimum of 1200 to provide adequate access.

Antimicrobial Additive

User accessible parts such as the back box, bezel and alarm fascia cover shall include a silver antimicrobial additive for inherent antimicrobial protection.

System Operation

Each gas service shall consist of a bank of four relays. The gas service outputs shall be presented on a five way connector block. A rechargeable battery shall provide a "System Alarm" indication in the event of a power failure.

Configuration of the Relay Interface shall be done via switches on the panel, allowing easy and flexible configuration.

Panel Operation

Each panel shall be wired into the data cable for the alarm system and shall be permanently connected to the "Essential Supply" within the hospital via a 3A double pole switched fused spur.

Each relay is energised when the respective condition is "Normal", and de-energises on an alarm condition. A failure of a relay will cause an alarm condition to present on the connected system.

Any data communication errors shall cause an alarm condition and a "System Fault" alarm.

CE Marking

The standard range of BeaconMedæS Medipoint 125 Medical Gas Central Alarms are 'CE' marked under the Medical Devices Directive 93/42/EEC with approval from notified body no. 2460 (DNV GL Presafe AS). Under this directive, the specified products are classified as Class IIb Medical Devices.

Part Numbers

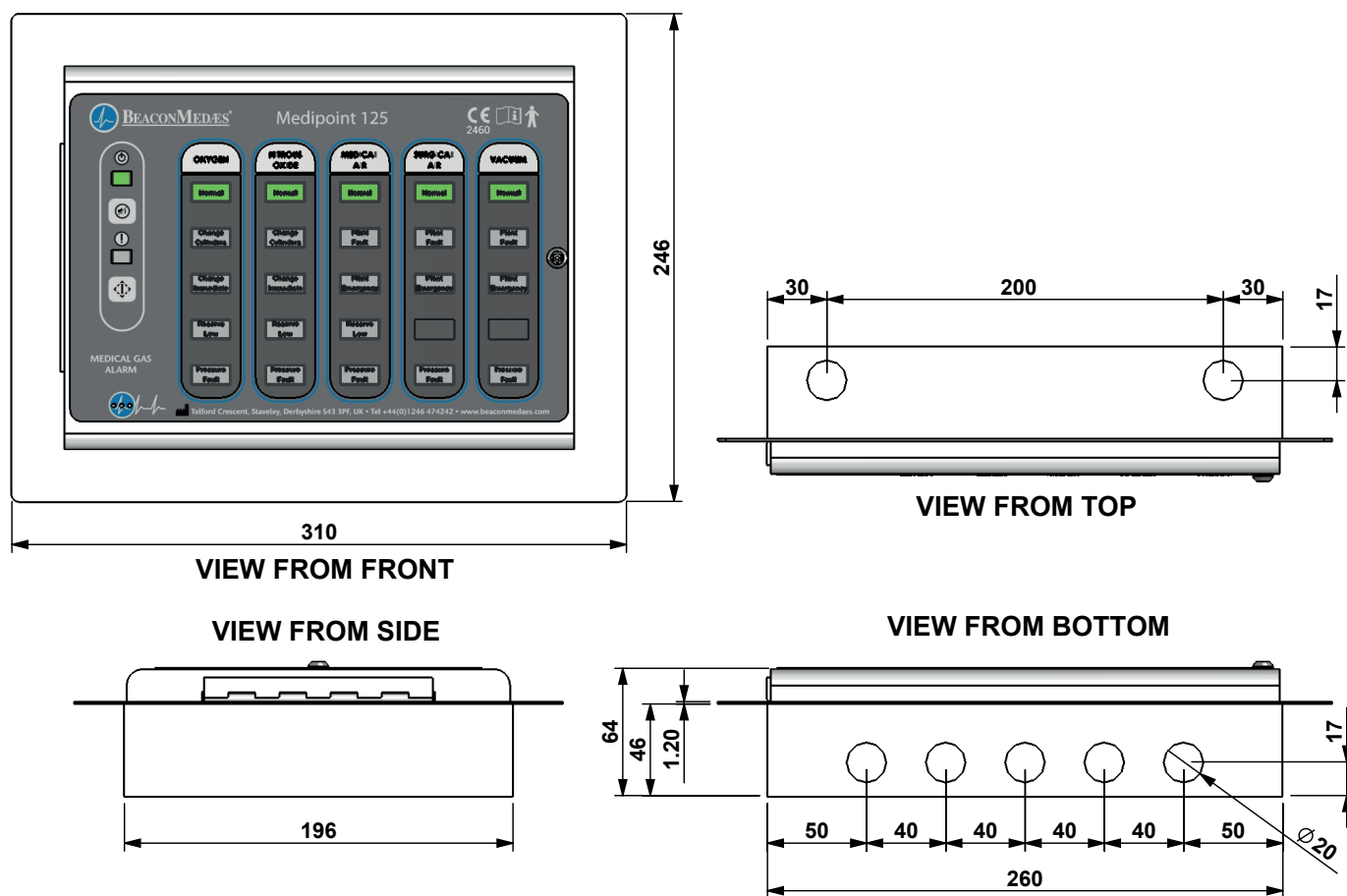
Description	Size	Part No
MP125 1 st Fix Base		1826561
MP125 Bezel		1826564
MP125 Alarm Assembly - 230v 50 Hz & 115v 60 Hz	1-5 gases	2005419
MP125 mk ² Relay Interface Alarm Assembly - 230v 50 Hz & 115v 60 Hz		2005201

Signal Splitter - 4 volt free inputs and 4 volt free outputs for BMS and 4 volt free or monitored outputs for alarm panel		2005446
Power Supply Kit for Signal Splitter (required for 60 hz regions)		SPL5496
MP125 Signal Booster Kit		2004133

Remote Audible		1826610
Line Contact Monitor Module	Double	1826499
Line Contact Monitor Module	Single	1826618

Description	Size	Part No
Screened Alarm Cable - MP125 alarm data connection	2 pair	2005421
Un-screened Alarm Cable - source equipment input to MP125 alarm	5 core	2005422
Screened Alarm Cable - MP26 alarm pressure switch connection	2 pair	1824637

Figure 1 - Installation Details



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