

**Medizone™ Area Valve Service Module****HTM02-01 / HTM2022 / ISO7396-1****SPECIFICATION****Medizone Area Service Module**

The Medizone Area Service Module may contain a local area medical gas alarm and a maximum of six area valve service units. The Medizone shall be pre-piped, wired and tested ready for installation into a finished building. Medical gas/vacuum services shall be fixed copper, piped to and from their respective area valve service units, and shall normally terminate in 22mm copper stub pipes for pressure gas installations and 22 or 28mm stub pipes for oxygen and vacuum installations. Pipes shall normally be connected at ceiling level. The position of copper stub pipes shall be handed as specified by the customer. Area valve service units shall be BeaconMedæS ZSU<sup>2</sup> type and shall conform to BS EN ISO 5359, HTM 02-01 and BS EN ISO 7396-1. The ZSU<sup>2</sup> shall provide a zone isolation facility, for use either in an emergency or for maintenance purposes.

**Emergency Access**

The 2nd fix shall include a transparent plastic window incorporating the words 'Pull in Emergency and Close Valve'. In order to gain access in an emergency, a ring pull shall be fitted to the removable portion of the window. The emergency access mechanism shall be safely operable by a 5th percentile woman without the use of a tool. Glass windows shall not be used. It shall not be possible to refit or reset the means of emergency access.

**Door Tamper Alarm**

A door tamper alarm facility shall be available, with a reed switch initiating a system alarm indication on the local alarm panel when the emergency access window is removed. Normally only oxygen and medical air ZSU<sup>2</sup>'s controlling high acuity care areas, resuscitation bays and accident and emergency wards shall be fitted with the door tamper facility.

**Materials**

The second fix assembly shall be manufactured from fire retardant V0 rated ABS moulded corner pieces connecting an extruded aluminium frame in which a high pressure compact laminate fascia plate is positively retained. The fascia plate shall be available in a range of colours to match the chosen hospital décor.

All wetted parts (except seals and gaskets) shall be brass or copper. Copper pipe shall be manufactured from phosphorous de-oxidised non-arsenical copper to EN 1412 grade CW024A, manufactured to metric outside diameters in accordance with EN 13348:2001R250 (half hard). Copper to copper joints shall be made using a silvercopper-phosphorous brazing alloy type CP1 or CP4 to BS EN ISO 17672 using a dry, clean, oil and oxygen free nitrogen inert gas shield with no flux. Each Medizone assembly shall be factory tested for gas tightness. Rubber pipe grommets shall be provided to ensure any leaking gas does not escape from the medizone into a wall cavity. All elastomeric gas seals shall be manufactured from Viton with a Shore hardness of 75.

All visible aluminium surfaces shall be powder coated RAL9010 60% gloss by a DuPont/Akzo Nobel approved powder coating specialist, offering a minimum guaranteed service life of 25 years.

**Gas Specific Connections**

The area valve service unit shall be fully gas specific and labelled to identify the medical gas service. The gas specific shrouds shall clearly show the gas service and use colour coding to BS EN ISO 5359. Shrouds shall be pin indexed such that the only the correct shroud can be fitted to each 1st fix. Gas specific NIST connections to BS EN ISO 5359 shall be incorporated on each side of the line valve and include a permanently fitted gas identification label. Pressure gas service (not vacuum) NIST connections shall incorporate 100% self sealing valves which, held closed by gas pressure until insertion of the appropriate gas specific male NIST fitting. Additional sealing of NIST fittings shall be achieved using blank NIST nuts, with a knurled outer diameter. The blank NIST nuts shall include an internal 'O' ring groove and 'O' ring to seal on the smooth outer diameter of the female NIST. Blank NIST nuts shall be hand tightened only. Each NIST connection shall be capable of providing a free air flow rate of 00 l/min with a pressure drop of 0.4 bar from a 4 bar nominal inlet pressure.

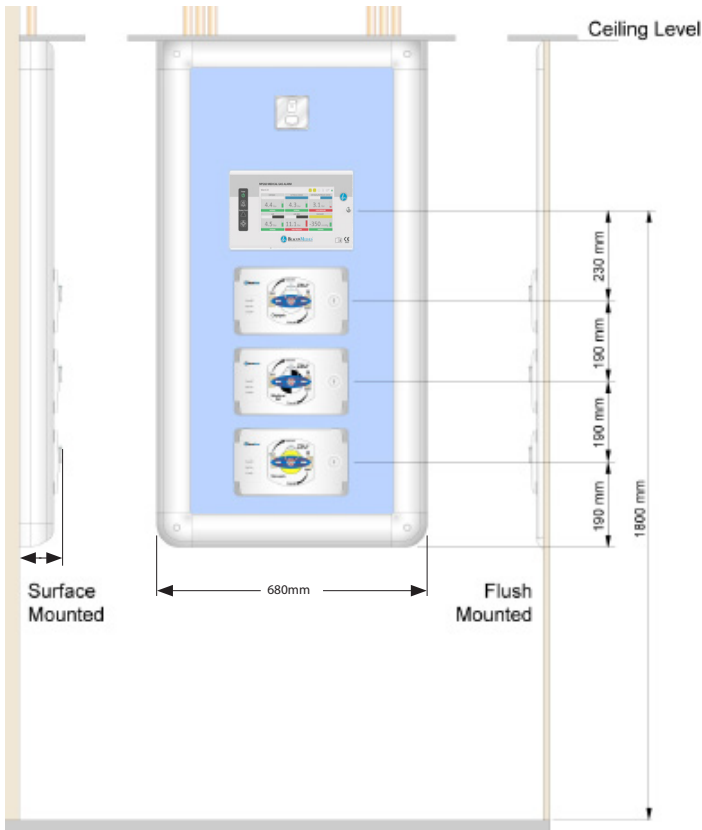
**Local Alarm Pressure Sensores**

The area valve service unit shall normally accommodate local alarm pressure sensores. Optionally, pressure sensores may be fitted within a high level access panel. Pressure sensor connections shall incorporate minimum leak pressure sensor connection ports. Wetted parts of pressure sensores shall be manufactured from inherently corrosion proof materials. Plating or sacrificial protection on mild steel is not acceptable.

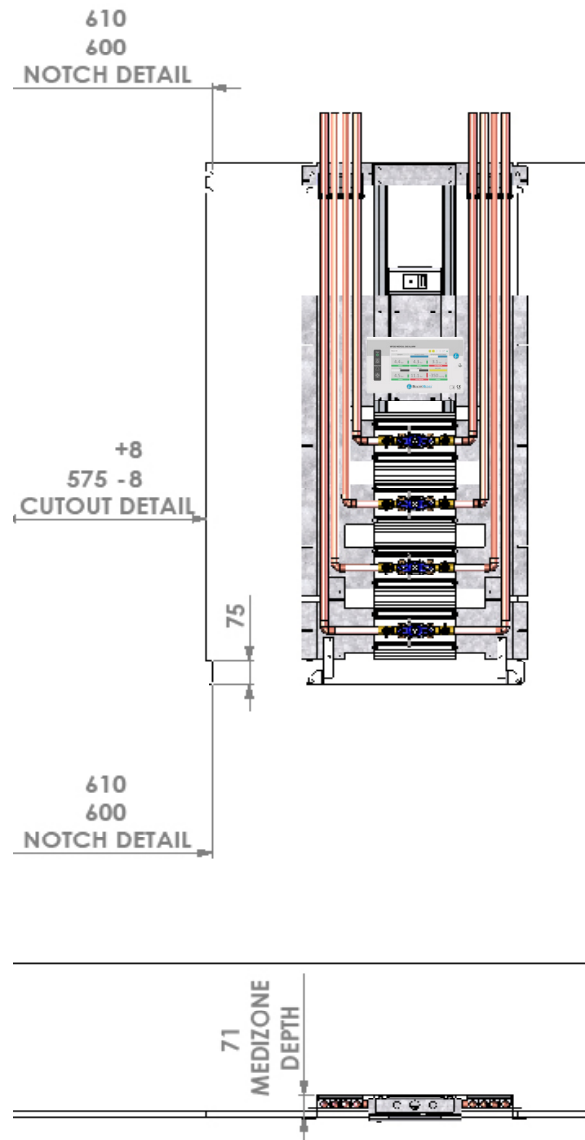
**CE Marking**

The standard range of BeaconMedæS Medizone Area Service Modules 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.

**Dimensions**



**Flush Mount Cut Out Details**



**Ordering**

Part No	Description	Size
MZTAI1	High Dependency Medizone with Tai Alarm Notification System and pressure transducers	1 Gas
MZTAI2		2 Gas
MZTAI3		3 Gas
MZTAI4		4 Gas
MZTAI5		5 Gas
MZTAI6		6 Gas

Part No	Description	Size
MZ2716	Medizone without pressure sensores, no alarm	1 Gas
MZ2726		2 Gas
MZ2736		3 Gas
MZ2746		4 Gas
MZ2756		5 Gas
MZ2766		6 Gas

Part No	Description	Size
MZ272616	Medizone with Medipoint 26 alarm and pressure sensores	1 Gas
MZ272626		2 Gas
MZ272636		3 Gas
MZ272646		4 Gas
MZ272656		5 Gas
MZ272666		6 Gas

Part No	Description
MZ27125	Extra for adding a Medipoint 125 Central Alarm to a Medizone without any alarm panel
MZ27F-C	Extra for floor to ceiling Medizone
MZ22-28	Extra for installing 28mm vacuum ZSU2
MZSAXFI	Extra for installing free issue 3rd party Alarm
MZ27AI	Extra for a double pole fused switch for isolation of alarm
MZ27ACCESS	Extra for installing pressure sensores in a high level access panel

Part No	Description	Size
MZ27PS16	Medizone with pressure sensores, no alarm	1 Gas
MZ27PS26		2 Gas
MZ27PS36		3 Gas
MZ27PS46		4 Gas
MZ27PS56		5 Gas
MZ27PS66		6 Gas

