- Duplicated microphone transducers for A+B or N+1 systems

- Emergency direct connection

- Monitored microphone voice coil

Dual microphone

The VAP30 is a heavy-duty indoor microphone unit designed to allow public address/paging system. The VAP30 can be supplied certified to provide safe operation in potentially explosive atmospheres and is ATEX & IECEx approved accordingly. The VAP30 comprises of a robust steel enclosure, which is equipped with an industrial operator membrane keypad and hyper-cardioid noise cancelling microphone fitted to a flexible gooseneck stem. The operator keypad array is specially designed to provide tactile feed back to the user and ergonomic layout. Large sized of keys according to operational importance simplifies paging and alarm (PA/GA) system operation.

Duplicated status LED's are fitted to indicate the availability of control command by the central equipment. For ultimate integrity the unit is available with two independent microphone transducers, which can be arranged to each drive dedicated amplification and loudspeaker arrays. For dual circuit execution, two VAP100 series processor/pre-amplifier modules are fitted to obviate common mode failure possibility, which are serviceable on a plug in/out basis. In highly critical life safety applications Emergency Direct Connection (EDC) is fitted as standard on VAP100d processors. This allows the host amplification to be controlled independently of the data processing sub-system/data transportation protocol. The VAP30 can be equipped with up to two conventional push button actuators which are independently wired to the central equipment, these allow selection of project specific special requirements. The VAP30 is equipped with a high performance VAP100 line driver that enables the unit to be located remotely from the host loudspeaker amplification. Automatic monitoring is included to supervise microphone voice coil, pre-amplification and critical paths to the central equipment. The VAP30 requires no local mains supply, the unit is energised by phantom power sourced from the host central equipment panel. Connectivity to the unit depends on which VAP100 transceiver type is fitted.

VAP100 line drivers

VAP100 line drivers are available in industrial version and also in Ex version:

VAP100E (Ex version)

ATEX certified Intrinsically Safe allows use in zone 1 IIC T4 hazardous areas. (Must be used in conjunction with PSC VODEC central equipment, part type ATE44 and MTL7758 barrier set)

VAP100d (Industrial version)

Safe area configurable operating system. (Must be used with VAP30 or ATE4 for either single or quad usage)

Where N+1 or A+B PA/GA system architectures are required the assigned VAP100 transceiver is fully duplicated.

The VAP30 can be console mounted or fitted into a low profile desk top enclosure. A range of special finishes are available from 316 g stainless steel to client specified RAL Colours.

Explosion protection

Marking ATEX	⟨Ex⟩ II 2G Ex ib IIC T4
Certification	ITS 09 ATEX 26420
Marking IECEx	Ex ib IIC T4 Gb
Certification	IECEx ITS 14.0009

Technical data

Mains supply	phantom powered DC 5 V
Microphone	hyper-cardioid response noise cancelling type
Number of push buttons	twenty tactile keys, up to two EDC buttons
Dimensions (width x height x depth)	490 mm x 140 mm x 66 mm (19.29 inch x 5.51 inch x 2.60 inch) (19" rack mount, 3 units)
Weight	1.75 kg excluding back box, 2.6 kg (5.7 lbs) with back box
Colour	black bezel with light grey membrane
Material enclosure	electro-plated mild steel
Gland entry	2 x M20
Power Supply	phantom powered
Temperature range	-40 °C to +50 °C (-40 °F to +122 °F)
Humidity	up to 100 %
Protection class	IP 42
Shock and vibration	1 g-
Ambient temperature	-40 °C $\leq$ T$_a$ $\leq$ +60 °C

VAP30

Type	Key Pad	Microphones	Line Driver
Industrial version	20 push buttons	single	1 x VAP100d
		dual	2 x VAP100d
		dual	2 x VAP100d
	16 push buttons	single	1 x VAP100d
Ex version	20 push buttons	single	1 x VAP100E
		dual	2 x VAP100E
		dual	2 x VAP100E
	16 push buttons	single	1 x VAP100E

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