VAP30 Access Unit

Features

- Duplicated microphone transducers for A+B or N+1 systems
- Emergency Direct Connection
- Monitored microphone voice coil
- Full monitored
- Highest integrity for life safety
- Early warning of system deterioration

VAP30 Access Unit

Description

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 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 (PAGA) 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:

VAP100a (Ex version)
ATEX certified Intrinsically Safe allows use in Zone 1 IIC T4 hazardous areas.
(Must be used in conjunction with BARTEC 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 PAGA 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.

02/10-BARTEC VODEC-DS0016

VAP30 Access Unit

BARTEC VODEC

Explosion protection

Ex protection

Ⓔx II 2G Ex ib IIC T4
-40 °C ≤ T_a ≤ +60 °C

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
483 mm wide (19" rack mount)
133.5 mm high (3 units)
100 mm deep

Weight
1.75 kg excluding back box,
2.6 kg 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
-40 °C to +50 °C

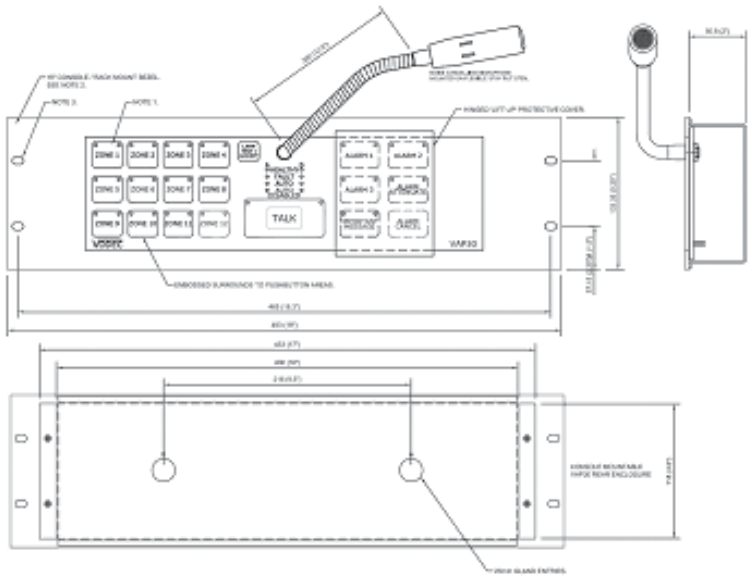
Humidity
Up to 100%

Environmental rating
IP42

Shock and vibration
1 g

Dual microphone

Dimensions



Selection Chart VAP30

Rack	Key Pad	Microphones	Line Driver
Industrial version	20 push buttons	single	1 x VAP100d
		single	2 x VAP100d
		dual	2 x VAP100d
	16 push buttons	single	1 x VAP100d
Ex version	20 push buttons	single	1 x VAP100a
		single	2 x VAP100a
		dual	2 x VAP100a
	16 push buttons	single	1 x VAP100a

BARTEC VODEC
United Kingdom
Parkview, Lockwood Close
Nottingham, NG5 9JN
Phone:+44 115 967-5240
Fax: +44 115 967-5241
info@bartec-vodec.com
www.bartec-vodec.com