

# BExA120 & BExDA120 ATEX EEx Hazardous Area Voice Annunciation unit



- Nominal output : 113dB(A) @ 1m +/- 3dB - Tone 5.
- A120D : EEx d IIC T4 (Tamb. -50 to +55°C)
- A120E : EEx de IIC T4 (Tamb. -50 to +55°C)
- ATEX / CENELEC / FTZU / GOST R
- 10 alarm tones (UKOOA / PFEER compliant)
- Edits automatically to message length
- Easy message creation with built in microphone.
- Volume control
- 100m effective range @ 1kHz
- Voltages : 24vdc; 115vac; 230vac
- DC version has reverse polarity protection.
- A120D : IP67 A120E : IP66
- Enclosure material : Marine grade LM6 Aluminium
- Chromated & powder coated finish - good resistance to humidity and salt spray environments.
- BExA120 Horn : High impact UL94 V0 & 5VA FR ABS
- BExDA120 Horn : Anti-Static High impact ABS
- Operating temperature : -50 to +55°C
- Storage temperature : -50 to +70°C
- Large range of certified end of line resistors.
- Weight : DC:3.20kg AC: 3.40kg
- KEMA Certificate number : 99ATEX6312



**BExA120D & BExA120E**  
Flameproof voice sounders  
Zones 1 & 2  
⊕ II 2G EEx d IIC T4  
⊕ II 2G EEx de IIC T4

**BExDA120D & BExDA120E**  
Flameproof & Dust ignition proof voice sounders  
Zones 1, 2, 21 & 22  
⊕ II 2G/D EEx d IIC T4 T100°C  
⊕ II 2G/D EEx de IIC T4 T100°C

**Installation Features.**

- Very large termination area.
- Dual M20 ISO cable gland entries (supplied with one stopping plug).
- Ratchet adjustable stainless steel 'U' bracket for positive adjustment under harsh conditions.
- IN & OUT terminals
- Terminals accept 0.5 to 4.0mm<sup>2</sup> cables.
- Line monitoring : Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor, or diode within EExd enclosure (dc versions)

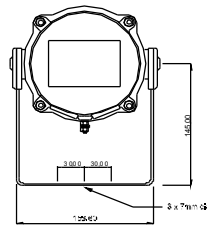
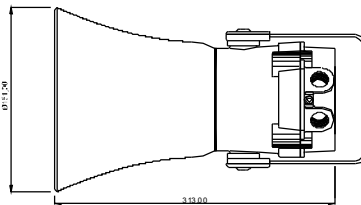
The sounder records, stores and plays back user defined messages stored directly to non-volatile memory without any intermediate analogue to digital conversion.

A single 16 second, message may be recorded and played back with a choice of 1 of 10 user selectable alarm tones (including silence to allow speech only option).

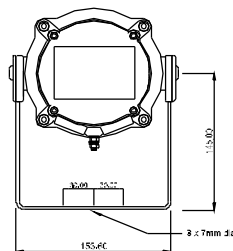
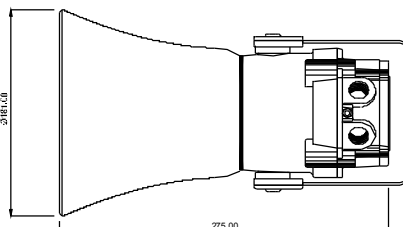
Input voltages and current consumption for the A120D & A120E voice sounders:

Voltage :	24vdc	115vac	230vac
		50/60Hz	50/60Hz
Voltage range :	+/-25%	+/-10%	+/-10%
Current mA :	480mA	90mA	45mA

A120D unit :



A120E unit :



A120D unit :




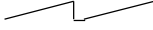
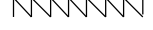
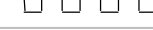





A120E unit :

**Also available :**

- BEx(D)S110 & S120 EEx d & EEx de sounder units with output levels of 117dB(A)
- Programmable versions with 45 tones and 4 stages.
- BEx(D)A110 EEx d & EEx de Voice Annunciation units.
- BExBG EEx d & EEx de 5, 10 & 15 Joule Xenon beacons
- BEx(D)L15 & 25 watt EEx d & EEx de loudspeakers.
- BEx(D)TS110 & BExTBG05 EEx d Telephone ringers and beacons.

**Stage 1 Frequency Description**

**Cycles**

Tone	Frequency Description	Waveform	Cycles
Tone 1	800/1000Hz @ 0.25 sec Alternating		4 cycles
Tone 2	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop		2 cycles
Tone 3	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.		4 cycles
Tone 4	544Hz (100mS)/440Hz (400mS) - NF S 32-001		4 cycles
Tone 5	1000Hz Continuous - PFEER Toxic Gas		2 cycles
Tone 6	Bell		2 cycles
Tone 7	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm		3 cycles
Tone 8	420Hz @ 0.625 sec Australian Alert		4 cycles
Tone 9	500-1200Hz 3.75sec /0.25sec. Australian Evac.		2 cycles
Tone 10	No tone - 0.5 second gap		

Ordering code :

BExA120

D

24DC

Product
BExA120
BExDA 120

Housing
D = EEx d IIC
E = EEx de IIC

Voltage
24DC
115AC
230AC



Multiple-unit configurations are available on stainless mounting plates. Combine 2, 3 or 4 devices - alarm sounders, loudspeakers, beacons. If required, units can be pre-wired to minimise installation time.

**TSP2406-C**