

STATUS SCIENTIFIC CONTROLS

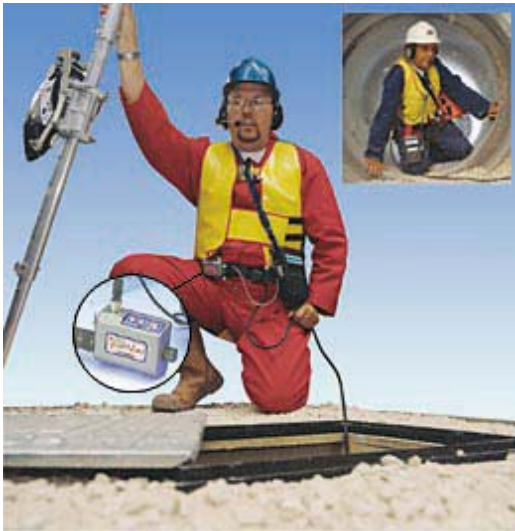
PROGRAMMABLE

FIXED SYSTEM FOR GAS AND SAFETY MONITORING AND CONTROL 



SPEECHLINE CONFINED SPACE COMMUNICATIONS SYSTEM

Technical Data Sheet



GENERAL

The Speechline Communications System is designed to provide hardwired communication facilities for between two to eight operatives. All users can speak and listen simultaneously and there is an "Alarm" facility. In addition to providing communication by speech, the Speechline System can also be used in conjunction with the Lifeline Gas Detection System. This combination means that an "Attendant" can remotely monitor the atmosphere that an "Entrant" is being exposed to, whilst at the same time being able to speak to him. The Lifeline/Speechline system has been successfully tested with 400m of interconnecting cable.

The system is certified intrinsically safe for Group IIC atmospheres.

SPECIFICATION

The system comprises of the following products:

1. Attendant Module, Stock Number SS601
2. Entrant Module, Stock Number SS602
3. 3 Way Junction Box, Stock Number SS603
4. 6 Way Junction Box, Stock Number SS604
5. Single Sided Headset & Microphone, Stock Number SS605
6. Double Sided Headset & Microphone, Stock Number SS606
7. Throat Microphone & Earpiece, Stock Number SS607
8. Belt Assembly, Stock Number SS609
9. Standard 2 Core Cable, Stock Number SS620
10. Standard 7 Core Cable, Stock Number SS621
11. Speechline to Lifeline Joint Cable, Stock Number SS622
12. 7 Core to PGD Joint Cable (Attendant), Stock Number SS623
13. 7 Core to PGD Joint Cable (Entrant), Stock Number SS624

Speechline Attendant and Entrant Modules

Sizes	: 80mm x 60mm x 35mm Nominal.
Weight	: 222g.
Power Source	: 2 x AAA Alkaline cell (Duracell, Duracell Ultra or Energiser).
Battery Life	: 100 hours minimum.
Power on indication	: The volume control has an inbuilt on/off switch, a green LED indicates 'power on'.
Low battery indication	: Low battery is indicated by a yellow LED a minimum of 12 hours before the batteries become exhausted.
Microphone mute	: The microphone is momentarily disabled by a pushbutton, the muted condition is then indicated by a red LED.
Alarm	: The Entrant module features an 'Alarm' pushbutton to initiate an alarm tone onto the system. The Attendant module has an 'Alarm Mute' pushbutton to silence the alarm.
Temperature range	: Operating range: -5°C to +55°C Storage range: -20°C to +55°C
Humidity range	: 0% to 100% R.H.
Environmental rating	: IP65

Single and Double Sided Headset and Microphone

Sizes	: 170mm max x 130mm max x 160mm max.
Weight	: Single Sided 223g. Double Sided 250g.
Temperature range	: Operating range: -5°C to +55°C Storage range: -20°C to +55°C
Humidity range	: 0% to 100% R.H.
Construction	: Antistatic conductive plastic ear shells with stainless steel fittings and microphone boom. Strain relief clothing clip fitted onto connecting lead.

Throat Microphone and Earpiece

Sizes	: Throat Microphone 34mm x 25mm x 16mm (excluding neck band) Earpiece 70mm x 45mm x 16mm nominal
Weight	: Total weight 55g
Temperature range	: Operating range: -5°C to +55°C Storage range: -20°C to +55°C
Humidity range	: 0% to 100% R.H.
Features	: Elasticated neckband for Throat microphone with velcro fastening for ease of use and safety. Earpiece locates around the ear for maximum comfort and security.

Standard 2 Core Cable

Description	: Standard general-purpose cable for Speechline System providing speech only, fitted with a plug at one end and a socket at the other. Strain relief clamps are fitted at each end enabling the cable to be anchored to the Speechline Belt Assembly. Cable is supplied on a plastic 'cable tidy'.
Weight	: Standard 15 metre length weighs 1Kg, extra cable weighs 33g per metre.
Size	: Cable diameter is 4.6mm nominal.
Length	: Standard length is 15m, other lengths may be specified up to 400m in one continuous length. Cables may be 'daisy chained' together.
Colour	: Standard colour is blue, other colours are available as special orders.
Construction	: Outer jacket PUR-glossy (Polyurethane)
Temperature range	: Static -30°C to +70°C. Operating -10°C to +70°C

High Temperature 2 Core Cable

Description	: Special high operating temperature cable for Speechline System providing speech only, fitted with a plug at one end and a socket at the other. Strain relief clamps are fitted at each end enabling the cable to be anchored to the Speechline Belt Assembly. Cable is supplied on a plastic 'cable tidy'.
Weight	: Standard 15 metre length weighs 850g, extra cable weighs 23g per metre.
Size	: Cable diameter is 3.3mm nominal.
Length	: Standard length is 15m, other lengths may be specified up to 30m in one continuous length. Cables may be 'daisy chained' together.
Colour	: White.
Construction	: FEP Teflon jacket over TFE Teflon covered cores.
Temperature range	: Operating -65°C to +200°C

Standard 7 Core Cable

Description	: Standard general-purpose cable required when Speechline System is used in conjunction with the Lifeline gas detection system. Cables are fitted with a plug at one end and a socket at the other. Strain relief clamps are fitted at each end enabling the cable to be anchored to the Speechline Belt Assembly. Cable is supplied on a plastic 'cable tidy'.
Weight	: Standard 15 metre length weighs 1.5Kg, extra cable weighs 81g per metre.
Sizes	: Cable diameter is 8mm nominal.
Length	: Standard length is 15m, other lengths may be specified up to 100m in one continuous length. Cables may be 'daisy chained' together.
Colour	: Black.
Construction	: Outer jacket matt PVC.
Temperature range	: Static -30°C to +70°C. Operating -20°C to +70°C

United Kingdom Hazardous Area Certification

Standards	EN50014, EN50020
BASEEFA Certificate No.	Ex99E2189 Code EEx ia IIC T4 T amb. 55 deg C
Zones	0, 1 & 2

Underwriters Laboratory (UL) Intrinsic Safety Hazardous Area Classification

United States

Underwriters Laboratory Inc. has assessed and 'classified' the Speechline Communications System. Details as follows:-

UL Standard - UL913, 5th. Edition, Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations

File number - E183650

Control number - 20ZL

Certified for use in - CLASS I, DIVISION 1, GROUPS A, B, C, D, TEMP. CODE T4. Maximum ambient temperature 50°C.

Category Classification No. (CCN) – JTPD, Gas or Vapor Detection Equipment, Classified for Use in Hazardous Locations

Canada

Underwriters Laboratory Inc. has assessed and Classified the Speechline Communications System. Details as follows:-

Canadian Standard – C22.2 No. 157-92

File number - E183650

Control number - 20ZL

Certified for use in - CLASS I, DIVISION 1, GROUPS A, B, C, D, TEMP. CODE T4. Maximum ambient temperature 50°C

Category Classification No. (CCN) – JTPD7, Gas or Vapor Detection Equipment, Classified for Use in Hazardous Locations in Canada

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