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**THORNE & DERRICK UK**  
 TEL 0044 191 490 1547 FAX 0044 477 5371  
 TEL 0044 117 977 4647 FAX 0044 977 5582

## Communication securely and understandable

Headsets for hazardous areas.

The effective use of resources is a fundamental key to the success of a company. Clear and targeted communication is a very important factor in this regard.

One such aspect is the use of modern facilities to relay information and instructions between the sender and the receiver in a reliable manner.

What is a problem, however, is the comprehensible transmission of the message. The correct volume is a factor. Another is the phonetically correct transmission of what is being said. It depends on whether the consonants can be transmitted and heard clearly and cleanly. Sounds such as "s, f, g, t, p, h, k and z" are particularly critical. These occur in the upper frequency range and can be hard to understand, or not heard at all, especially amidst a cacophony of voices or background noise. "care" or "bear" becomes "air" or "shine" becomes "nine" or "sign". This not only creates unpleasant situations; such misunderstandings in the operational environment can sometimes lead to hazardous situations. Without the correct equipment it is often virtually impossible to ensure a proper flow of information.

High-quality headset systems can help to avoid or defuse such situations. These transfer the sound to exactly where it is needed. Close to the ear. Moreover, these headsets are specialist devices in their field. They have been specifically developed and designed to ensure maximum quality reproduction, especially in noisy environments. Accurate voice transmission is just one reason why the use of headsets is worthwhile. Legislation does not prescribe the use of a hands free device or a headset when driving vehicles for nothing. Thanks to its technical components a headset fulfils the same tasks as a telephone receiver.



The advantage lies in the fact that both hands are kept free. The headset user has the use of both hands during a conversation and does not have to worry about his phone or radio, meaning he can concentrate on the conversation and his activity at hand.

### Headsets

|                         |                     |                      |                            |
|-------------------------|---------------------|----------------------|----------------------------|
|                         |                     |                      |                            |
| Ex-TRA 80* Aurelis      | Lite-Com Pro        | ComCom Ex            | Serenity SPC Ex            |
| Page 15                 | Page 16 - 17        | Page 18              | Page 19                    |
|                         |                     |                      |                            |
| Ex-TRA 300 PTT-E/PTT-EH | Ex-TRA 300 neckband | Ex-TRA 300 fire talk | Ex-TRA 300 fire talk supra |
| Page 20 - 23            | Page 24 - 25        | Page 26 - 27         | Page 28 - 29               |



## Intrinsically safe headsets – Ex-TRA 300 (Analogue)

The Ex-TRA 300 headsets are a series of explosion-protected headsets for use under extreme conditions. The products have been developed in conjunction with demanding users and subjected to rigorous examination. Therefore the headset will fulfill all requirements for industrial capability and reliability.

| Technical data         |                         |
|------------------------|-------------------------|
| <b>Loudspeaker</b>     |                         |
| Pattern:               | dynamic                 |
| Impedance:             | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level:  | max. 115 dB             |
| Frequency range:       | 150 Hz - 12 kHz         |
| <b>Microphone</b>      |                         |
| Pattern:               | electret                |
| Directional:           | noise cancelling (NC)   |
| Impedance:             | 4,400 Ohm               |
| Sensitivity:           | -44 dBV / Pa 1 kHz      |
| Frequency range:       | 300 Hz - 9 kHz          |
| <b>Additional data</b> |                         |
| Ambient temperature:   | -20°C to +50°C          |
| Protection class:      | IP54                    |
| Weight:                | approx. 520 g           |
| Noise attenuation:     | approx. 27 dB           |



- Clear sound in noisy environments
- High attenuation
- High and excellent wearing comfort
- Big PTT-button

**Ex-Data:**  
 ATEX  
 Ⓜ II 2G Ex ia IIC T4  
 IECEx  
 Ex ia IIC T4 Gb



in cooperation with

**Intradex**

## Compatible products

| Radios  |   |
|---|---|
|  |  |
| Ex-PMR 1000   | Ex-PMR 2000   |
| Art.-Nr.: AS000260  | Art.-Nr.: AS000280 / 281  |
|  |  |
| Motorola GP 900   | Motorola GP340-680 Ex   |

## Accessories

|   |   |  |
|---|---|--|
|  |  |  |
| Windscreen for microphone M995  | Foam speaker cover  |  |
| Art.-Nr.: A0000428  | Art.-Nr.: A0000430  |  |
|  |  |  |
| Headband cushion (nappa leather)  | Ear cushions  |  |
| Art.-Nr.: A0000431  | Art.-Nr.: A0000429  |  |

## Intrinsically safe headsets – Ex-TRA 300 (Digital)

The Ex-TRA 300 headsets are a series of explosion-protected headsets for use under extreme conditions. The products have been developed in conjunction with demanding users and subjected to rigorous examination. Therefore the headset will fulfill all requirements for industrial capability and reliability.

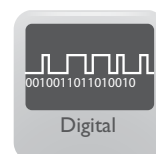
| Technical data        |                         |
|-----------------------|-------------------------|
| Loudspeaker           |                         |
| Pattern:              | dynamic                 |
| Impedance:            | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level: | max. 115 dB             |
| Frequency range:      | 150 Hz - 12 kHz         |
| Microphone            |                         |
| Pattern:              | electret                |
| Directional:          | noise cancelling (NC)   |
| Impedance:            | 4,400 Ohm               |
| Sensitivity:          | -44 dBV / Pa 1 kHz      |
| Frequency range:      | 300 Hz - 9 kHz          |
| Additional data       |                         |
| Ambient temperature:  | -20°C to +50°C          |
| Protection class:     | IP54                    |
| Weight:               | approx. 520 g           |
| Noise Attenuation:    | approx. 27 dB           |



- Internal amplifier for best volume and clear sound in every situation
- High attenuation
- High and excellent wearing comfort
- Big PTT-button

**Ex-Data:**  
 ATEX  
 Ex II 2G Ex ia IIC T4


IECEX  
 Ex ia IIC T4 Gb



in cooperation with

 **Intradex**

## Compatible products

| Radios  |   |
|---|---|
|  |  |
| Cassidian THR880i Ex  | Cassidian THR9 Ex   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

## Accessories

|   |   |  |
|---|---|--|
|  |  |  |
| Windscreen for microphone M995  | Foam speaker cover  |  |
| Art.-Nr.: A0000428  | Art.-Nr.: A0000430  |  |
|  |  |  |
| Headband cushion (nappa leather)  | Ear cushions  |  |
| Art.-Nr.: A0000431  | Art.-Nr.: A0000429  |  |



## Ex-TRA 300 headset with helmet adapter (Analogue)

The Ex-TRA 300 headsets are a series of explosion-protected headsets for use under extreme conditions. The products have been developed in conjunction with demanding users and subjected to rigorous examination. Therefore the headset will fulfill all requirements for industrial capability and reliability.

| Technical data        |                         |
|-----------------------|-------------------------|
| Loudspeaker           |                         |
| Pattern:              | dynamic                 |
| Impedance:            | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level: | max. 115 dB             |
| Frequency range:      | 150 Hz - 12 kHz         |
| Microphone            |                         |
| Pattern:              | electret                |
| Directional:          | noise cancelling (NC)   |
| Impedance:            | 4,400 Ohm               |
| Sensitivity:          | -44 dBV / Pa 1 kHz      |
| Frequency range:      | 300 Hz - 9 kHz          |
| Additional data       |                         |
| Ambient temperature:  | -20°C to +50°C          |
| Protection class:     | IP54                    |
| Weight:               | approx. 520 g           |
| Noise attenuation:    | approx. 27 dB           |



in cooperation with

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- Clear sound in noisy environments
- High attenuation
- High and excellent wearing comfort
- Big PTT-button
- Fits to nearly all helmet variants

**Ex-Data:**  
ATEX  
Ⓔ II 2G Ex ia IIC T4  
  
IECEX  
Ex ia IIC T4 Gb



## Compatible products

| Radios  |   |
|---|---|
|  |  |
| Ex-PMR 1000<br>Art.-Nr.: AS000260   | Ex-PMR 2000<br>Art.-Nr.: AS000280/281   |
|  |  |
| Motorola GP 900   | Motorola GP340-680 Ex   |

## Accessories

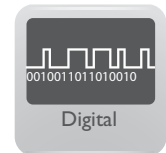
|   |   |   |
|---|---|---|
|  |  |  |
| Windscreen for microphone M995<br>Art.-Nr.: A0000428                                | Foam speaker cover<br>Art.-Nr.: A0000430  | Ear cushions<br>Art.-Nr.: A0000429  |
|  |  |   |
| Helmet adaptor; types on request<br>Art.-Nr.: A0000432 - 436                        | Headband cushion (nappa leather)<br>Art.-Nr.: A0000431                                |   |



## Ex-TRA 300 headset with helmet adapter (Digital)

The Ex-TRA 300 headsets are a series of explosion-protected headsets for use under extreme conditions. The products have been developed in conjunction with demanding users and subjected to rigorous examination. Therefore the headset will fulfill all requirements for industrial capability and reliability.

| Technical data        |                         |
|-----------------------|-------------------------|
| Loudspeaker           |                         |
| Pattern:              | dynamic                 |
| Impedance:            | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level: | max. 115 dB             |
| Frequency range:      | 150 Hz - 12 kHz         |
| Microphone            |                         |
| Pattern:              | electret                |
| Directional:          | noise cancelling (NC)   |
| Impedance:            | 4,400 Ohm               |
| Sensitivity:          | -44 dBV / Pa 1 kHz      |
| Frequency range:      | 300 Hz - 9 kHz          |
| Additional data       |                         |
| Ambient temperature:  | -20°C to +50°C          |
| Protection class:     | IP54                    |
| Weight:               | approx. 520 g           |
| Noise attenuation:    | approx. 27 dB           |



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- Internal amplifier for best volume and clear sound in every situation
- High attenuation
- High and excellent wearing comfort
- Big PTT-button
- Fits to nearly all helmet variants

**Ex-Data:**  
 ATEX  
 Ⓜ II 2G Ex ia IIC T4



IECEX  
 Ex ia IIC T4 Gb



## Compatible products

### Radios

|   |   |
|---|---|
|  |  |
| Cassidian THR880i Ex  | Cassidian THR9 Ex   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

## Accessories

|   |   |   |
|---|---|---|
|  |  |  |
| Windscreen for microphone M995  | Foam speaker cover  | Ear cushions  |
| Art.-Nr.: A0000428  | Art.-Nr.: A0000430  | Art.-Nr.: A0000429  |

|   |   |
|---|---|
|  |  |
| Helmet adaptor, types on request  | Headband cushion (nappa leather)  |
| Art.-Nr.: A0000432 - 436  | Art.-Nr.: A0000431  |



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## Ex-TRA 300 neckband (Analogue)

The Ex-TRA 300 Neckband provides to you a comfortable light weight headset solution and can be used with almost every kind of helmet. Through the Open-Ear-Gain technology you are able to hear all ambient noises and also be able to have clear and loud communication even in dangerous situations.

| Technical data         |                         |
|------------------------|-------------------------|
| <b>Microphone</b>      |                         |
| Pattern:               | electret                |
| Directional:           | noise cancelling (NC)   |
| Impedance:             | 4,400 Ohm               |
| Sensitivity:           | -44 dBV / Pa, 1 kHz     |
| Frequency range:       | 300 Hz – 10 KHz         |
| <b>Loudspeaker</b>     |                         |
| Pattern:               | magnetic                |
| Impedance:             | 250 Ohm at 1 mW / 1 kHz |
| Sound pressure level:  | max. 117 dB             |
| Frequency range:       | 100 Hz – 4 kHz          |
| <b>Additional data</b> |                         |
| Temperature range:     | -20 °C to +50 °C        |
| Weight:                | approx. 118 g           |



in cooperation with



- Light weight headset
- Pressure-free comfortable wearing
- Possible with helmets and chemical splash suits

**Ex-Data:**  
 ATEX  
 Ex II 2 G Ex ia IICT4  
 IECEx  
 Ex ia IICT4 Gb



## Compatible products

| Radios             |                        |
|--------------------|------------------------|
|                    |                        |
| Ex PMR 1000        | Ex PMR 2000            |
| Art.-Nr.: AS000260 | Art.-Nr.: AS000280/281 |
|                    |                        |
| Motorola GP 900    | Motorola GP340-680 Ex  |

## Accessories

|                                |                          |                    |
|--------------------------------|--------------------------|--------------------|
|                                |                          |                    |
| Windscreen for microphone M995 | Ear Mould                | Ear adaptor        |
| Art.-Nr.: A0000428             | Art.-Nr.: A0000424 - 425 | Art.-Nr.: A0000426 |
|                                |                          |                    |
| Ear bud                        | Acoustic ear tube        |                    |
| Art.-Nr.: A0000421 - 423       | Art.-Nr.: A0000427       |                    |

## Ex-TRA 300 neckband (Digital)

The Ex-TRA 300 headsets are a new series of explosion-protected headsets for use under extreme conditions. The products have been developed in conjunction with demanding users and subjected to rigorous examination. We are therefore sure that the headsets will fulfil your requirements for industrial capability and reliability.

| Technical data         |                         |
|------------------------|-------------------------|
| <b>Microphone</b>      |                         |
| Pattern:               | electret                |
| Directional:           | noise cancelling (NC)   |
| Impedance:             | 4,400 Ohm               |
| Sensitivity:           | -44 dBV / Pa, 1 kHz     |
| Frequency range:       | 300 Hz – 10 KHz         |
| <b>Loudspeaker</b>     |                         |
| Pattern:               | magnetic                |
| Impedance:             | 250 Ohm at 1 mW / 1 kHz |
| Sound pressure level:  | max. 117 dB             |
| Frequency range:       | 100 Hz – 4 kHz          |
| <b>Additional data</b> |                         |
| Temperature range:     | -20 °C to +50 °C        |
| Protection class:      | IP54                    |
| Weight:                | approx. 118 g           |



in cooperation with





- Internal amplifier for best volume and clear sound in every situation
- Light weight headset
- Pressure-free comfortable wearing
- Possible with helmets and chemical splash suit

**Ex-Data:**  
 ATEX  
 Ⓔ II 2 G Ex ia IIC T4  
 IECEx  
 Ex ia IIC T4 Gb



## Compatible products

| Radios  |   |
|---|---|
|  |  |
| Cassidian THR880i Ex  | Cassidian THR9 Ex   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

## Accessories

|   |   |   |
|---|---|---|
|  |  |  |
| Windscreen for microphone M995  | Ear Mould   | Ear adaptor   |
| Art.-Nr.: A0000428  | Art.-Nr.: A0000424 - 425  | Art.-Nr.: A0000426  |
|  |  |   |
| Ear bud   | Acoustic ear tube   |   |
| Art.-Nr.: A0000421 - 423  | Art.-Nr.: A0000427  |   |



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## Ex-TRA 300 Fire talk (Analogue)

The Ex-TRA 300 Fire talk headset is designed to provide optimum communication in critical situations for fire and rescue services. The robust and rugged design and the PTT button provides to you with the highest performance in all situations. Through a large variety of helmet adaptors you can use it with almost all fire brigade standard helmets. Even changing from one helmet to other is quickly possible.

| Technical data         |                         |
|------------------------|-------------------------|
| <b>Loudspeaker</b>     |                         |
| Pattern:               | magnetic                |
| Impedance:             | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level:  | max. 106 dB             |
| Frequency range:       | 300 Hz – 4 kHz          |
| <b>Microphone</b>      |                         |
| Pattern:               | electret                |
| Directional:           | noise cancelling (NC)   |
| Impedance:             | 2,500 Ohm               |
| Sensitivity:           | 34 dBV/Pa, 1 kHz        |
| Frequency range:       | 100 Hz – 5 kHz          |
| <b>Additional data</b> |                         |
| Ambient temperature:   | -20°C to +50°C          |
| Protection class:      | IP54                    |
| Weight:                | approx. 130 g           |



in cooperation with



- Clear voice transmission and clear understanding
- Easy adaptation to helmets
- Rugged and big PTT button

**Ex-data:**  
 ATEX  
 Ⓜ II 2 G Ex ia IIC T4

IECEX  
 Ex ia IIC T4 Gb



## Compatible products

| Radios  |   |
|---|---|
|  |  |
| Ex-PMR 1000   | Ex-PMR 2000   |
| Art-Nr.: AS000260   | Art-Nr.: AS000280/281   |
|  |  |
| Motorola GP 900   | Motorola GP340-680 Ex   |

## Accessories

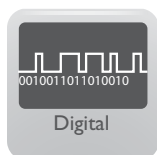
|   |   |
|---|---|
|  |  |
| Helmet adaptor for Fire brigade Headset   | Windscreen for microphone M995  |
| Art-Nr.: A0000451-461   | Art-Nr.: A0000428   |
|   |   |
|   |   |
|   |   |



## Ex-TRA 300 Fire talk (Digital)

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| Technical data        |                         |
|-----------------------|-------------------------|
| Loudspeaker           |                         |
| Pattern:              | magnetic                |
| Impedance:            | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level: | max. 106 dB             |
| Frequency range:      | 300 Hz – 4 kHz          |
| Microphone            |                         |
| Pattern:              | electret                |
| Directional:          | noise cancelling (NC)   |
| Impedance:            | 2,500 Ohm               |
| Sensitivity:          | 34 dBV/Pa, 1 kHz        |
| Frequency range:      | 100 Hz – 5 kHz          |
| Additional data       |                         |
| Ambient temperature:  | -20°C to +50°C          |
| Protection class:     | IP54                    |
| Weight:               | approx. 130 g           |



in cooperation with



- Internal amplifier for best volume and clear sound in every situation
- Clear voice transmission and clear understanding
- Easy adaptation to helmets
- Rugged and big PTT button

### Ex-data:

ATEX  
 Ⓜ II 2 G Ex ia IIC T4

IECEX  
 Ex ia IIC T4 Gb



## Compatible products

### Radios



Cassidian THR880i Ex



Cassidian THR9 Ex

## Accessories



Helmet adaptor for Fire brigade Headset

Art.-Nr.: A0000451-461



Windscreen for microphone M995

Art.-Nr.: A0000428



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## Ex-TRA 300 Fire talk supra (Analogue)

The Ex-TRA 300 Fire talk supra is a special designed and very robust headset. It fits on all common fire brigade supra helmets without any additional adaption. Due to the design of the headset the rescue brigades can hear the ambient noises and have clear and loud communication to avoid mishearing commands.

| Technische Daten       |                         |
|------------------------|-------------------------|
| <b>Loudspeaker</b>     |                         |
| Pattern:               | magnetic                |
| Impedance:             | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level:  | max. 106 dB             |
| Frequency range:       | 300 Hz - 4 kHz          |
| <b>Microphone</b>      |                         |
| Pattern:               | electret                |
| Directional:           | noise cancelling (NC)   |
| Impedance:             | 2500 Ohm                |
| Sensitivity:           | -34 dBV / Pa 1 kHz      |
| Frequency range:       | 100 Hz - 5 kHz          |
| <b>Additional data</b> |                         |
| Ambient temperature:   | -20°C to +50°C          |
| Protection class:      | IP54                    |
| Weight:                | approx. 130 g           |



in cooperation with



- Perfect voice transmission even with loud ambient noises
- Special design for fire brigade helmets
- Optimum performance due to design
- Robust and big PTT button

### Ex-data:

ATEX  
 Ⓜ II 2G Ex ia IIC T4

IECEX  
 Ex ia IIC T4 Gb



## Compatible products

| Radios  |   |
|---|---|
|  |  |
| Ex-PMR 1000   | Ex-PMR 2000   |
| Art.-Nr.: AS000260  | Art.-Nr.: AS000280/281  |
|  |  |
| Motorola GP 900   | Motorola GP340-680 Ex   |

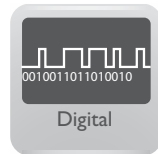
## Accessories

|   |  |  |
|---|--|--|
|  |  |  |
| Windscreen for microphone M995  |  |  |
| Art.-Nr.: A0000428  |  |  |
|   |  |  |
|   |  |  |
|   |  |  |
|   |  |  |

## Ex-TRA 300 Fire talk supra (Digital)

The Ex-TRA 300 Fire talk supra is a special designed and very robust headset. It fits on all common fire brigade supra helmets without any additional adaption. Due to the design of the headset the rescue brigades can hear the ambient noises and have clear and loud communication to avoid mishearing commands.

| Technische Daten       |                         |
|------------------------|-------------------------|
| <b>Loudspeaker</b>     |                         |
| Pattern:               | magnetic                |
| Impedance:             | 150 Ohm at 1 mW / 1 kHz |
| Sound pressure level:  | max. 106 dB             |
| Frequency range:       | 300 Hz - 4 kHz          |
| <b>Microphone</b>      |                         |
| Pattern:               | electret                |
| Directional:           | noise cancelling (NC)   |
| Impedance:             | 2500 Ohm                |
| Sensitivity:           | -34 dBV / Pa 1 kHz      |
| Frequency range:       | 100 Hz - 5 kHz          |
| <b>Additional data</b> |                         |
| Ambient temperature:   | -20°C to +50°C          |
| Protection class:      | IP54                    |
| Weight:                | approx. 130 g           |



in cooperation with  
 **Intradex**

- Internal amplifier for best volume and clear sound in every situation
- Perfect voice transmission even with loud ambient noises
- Special design for fire brigade helmets
- Optimum performance due to design
- Robust and big PTT button

**Ex-Daten:**  
 ATEX  
 Ⓜ II 2G Ex ia IIC T4

IECEX  
 Ex ia IIC T4 Gb



## Compatible products

| Radios  |   |
|---|---|
|  |  |
| Cassidian THR880i   | Cassidian THR9 Ex   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

## Accessories

|   |  |  |  |
|---|--|--|--|
|  |  |  |  |
| Windscreen for microphone M995  |  |  |  |
| Art-Nr.: A0000428   |  |  |  |
|   |  |  |  |
|   |  |  |  |
|   |  |  |  |
|   |  |  |  |