

Dräger HPS®-COM Communication unit

The Dräger HPS®-COM is a robust, easy-to-install communication unit for firefighting helmets. Thanks to the latest technology, it delivers excellent audio performance. You can choose between two different base units and four microphone options, suitable for a wide range of application scenarios.

Dräger HPS®-COM dual

- two types of microphone in one unit



Skull microphone

- ideal for use with respiratory protection



Clip (click & go)

- quick and easy assembly and disassembly

Boom microphone

- intelligent mic parking position inside helmet provides more space and protection
- adjustable mic position

Universal Nexus plug

Benefits

The first choice for firefighting and rescue operations

The Dräger HPS®-COM was specially developed for firefighting helmets as a reliable communication unit for use in extreme conditions, especially firefighting and rescue operations. Together with the Dräger HPS® 7000 full-shell helmet, this headset is approved as a system according to EN 443. The headset also has an IP67 protection class for resistance against dust and splash water and meets the requirements of European Directive 2014/34/EU for explosion protection (ATEX).

Excellent speech quality

The HPS®-COM has the best audio performance in its class. The integrated speaker delivers excellent speech quality with a PESQ value of 4.2. By comparison, transmitted speech is significantly higher than with the GSM mobile radio standard with a PESQ value between 3.1 and 3.5. The HPS®-COM offers outstanding performance across the entire frequency spectrum of human speech, so that every radio call is reproduced optimally.

Modular system, individually configurable

Thanks to its modular concept, you can choose between two different base units: the Dräger HPS®-COM or the Dräger HPS®-COM dual. You can also individually configure these units with different microphones as desired:

- The HPS®-COM Boom microphone delivers the best speech comprehensibility even in loud environments. This directional premium gooseneck microphone facilitates communication reliably thanks to its noise cancelling function. Disruptive noise from your surroundings (for example, from fire ventilators or vehicle pumps) is automatically filtered out, so that only your voice is transmitted. It enables you to give and receive clear instructions even in stressful firefighting operations.
 - The HPS®-COM Short microphones gives you maximum freedom of movement. The short omnidirectional gooseneck microphone easily picks up your voice from outside of visual range and transmits it reliably to the wireless device. This allows you to communicate with ease even in confined space conditions (such as when entering containers or confined spaces).
 - Two different types of bone conduction microphone (skull/throat mic) enable speech transmission that is entirely independent from the environment. Due to its position on the head or next to the throat, a receiver mechanically absorbs the sound of your voice directly via bone conduction.
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Respond as the situation demands

With the Dräger HPS®-COM dual you are always instantly ready to respond as the situation demands. You can switch between the connected microphone and the integrated skull microphone during operation, by simply pushing the front boom microphone to the parking position. The audio signal from the skull microphone is then automatically transmitted. Thanks to this feature, the HPS®-COM dual combines the benefits of airborne sound and bone conduction microphones in one unit. This offers you extensive flexibility and freedom of movement, all while transmitting speech regardless of what is going on around you.

Benefits

Safe and protected with one easy movement

The parking position of the HPS®-COM gives you freedom to move when you need it. For undisturbed work when not using the boom or short microphone, simply push the microphone to the parking position in the helmet. This mutes the microphone and secures it for safe keeping until the next time it is needed. The microphone is fully ready for use again with just one easy movement. With the HPS®-COM dual, the additional skull microphone is activated when the boom microphone is moved to this position. The robust design (IP67 and 2014/34/EU – ATEX) of the HPS®-COM and the protection provided by the intelligent positioning inside the helmet ensure that the unit has a high durability.

Fast and easy to attach (click & go)

Thanks to the integrated clip made of robust steel, you can simply click the Dräger HPS®-COM into our Dräger HPS® 7000 firefighting helmet with no tools needed. Then just insert the four-pin Nexus plug into your control unit (Dräger C-C440 / C-C550). Equipping yourself on the way to a firefighting operation is therefore fast and easy. The time-saving attachment and removal also make it easy to exchange HPS®-COM units between different users. The unit itself is designed to be low maintenance. No batteries are needed thanks to passive electronics. Removing the unit is fast and simple, and no tools are needed. This saves valuable time when cleaning the helmet. Soiling on the HPS®-COM can be fully removed with a moist cloth and a mild cleaning agent.

Compatible with your radio and helmet system

The four-pin Nexus plug makes the Dräger HPS®-COM communication unit universal. The standardised interface to the Dräger C-C440 (push-to-talk) and C-C550 (speaker/microphone unit with push-to-talk) control units allows for virtually any option in terms of what radio device is used: more than 350 different models can be connected – giving you a flexible range of choices. The communication unit connects perfectly to the Dräger HPS® 7000 firefighting helmet.

Details



D-8544-2019

Dräger HPS®-COM with Boom Mic



D-8543-2019

Dräger HPS®-COM with Throat Mic



D-8547-2019

Dräger HPS®-COM dual with Skull and Boom Mic

Recommended models based on application scenario

Application scenarios	Dräger HPS®-COM				Dräger HPS®-COM dual	
	Short ¹	Throat	Skull	Boom ¹	Short ¹ & Skull	Boom ¹ & Skull
Emergency rescue service (low background noise)	✓✓✓	–	✓	✓✓	✓✓✓	✓✓
Technical rescue (medium background noise)	✓✓	✓	✓✓	✓✓✓	✓✓	✓✓✓
Offshore sector ² (loud background noise)	–	✓✓✓	✓✓✓	✓	✓✓✓	✓✓✓
Use with respiratory protection	–	–	✓✓✓	✓✓	✓✓✓	✓✓✓
Use with hazmat suits	✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Confined spaces entry (CSE)	✓✓✓	✓✓	✓✓✓	✓	✓✓✓	✓✓✓
Low-noise communication	–	✓✓✓	✓✓	–	✓✓	✓✓

¹Wind shield available
²For hearing protection requirements use Dräger ANP-COM.

✓✓✓ excellent ✓✓ very good ✓ good – not recommended

System Components



D-59662-2012

Dräger HPS® 7000

The multipurpose Dräger HPS® 7000 firefighter's helmet is in a class of its own, thanks to its innovative, sporty and dynamic design, ergonomic fit and components which make it a multifunctional system solution. It provides optimum protection during every operation.

Accessories



D-8339-2014

Dräger C-C440

Control unit with large Push-to-Talk button for easy handling of the radio transmitter. Tough and robust design according to IP67 / MIL-STD-810G standards. Specially designed for deployments using chemical protective suits. ATEX versions available.



D-9343-2014

Dräger C-C550

Control unit for the tactical transmitter with integrated loudspeaker and microphone. Can be hooked up to a number of receiver models. Its strong and robust design is IP67 / MIL-STD-810G approved. Allows for independent deployments with the radio receiver (also without attached headset). User-friendly with two PTT buttons.

Related Products



D-465-2018

Dräger ANP-COM

Dräger ANP-COM is an integrated communication unit with active hearing protection. It protects against loud, distracting background noises, while also allowing direct communication with others. Radio messages can likewise be heard clearly. With its slim design, the ANP-COM is even suitable for wearing under a helmet.



D-28795-2015

Dräger FPS®-COM 5000

Because there is no time for misunderstandings in an emergency: The Dräger FPS®-COM 5000 communication unit has been specifically developed for the full-face mask Dräger FPS® 7000 and ensures clear communication through a voice amplifier unit or radio device – even under extreme conditions.



D-28805-2015

Dräger FPS®-COM 7000

The Dräger FPS®-COM 7000 provides hands-free communication for all wearers of respiratory protection devices during a mission. Excellent voice quality is achieved by removing interfering noises.

Technical Data

Environment and audio performance

Operating temperature	-30 to +60° C
Storage temperature	-30 to +60° C
Maximum humidity	80 %
Audio performance	PESQ value 4,2

Speaker housing

Weight	105 g with cable
Material	Polyamide
Cable	Length: 480 mm (spiral cable)
Attachment	Steel clip

Boom Mic

Type	Electret, noise-cancelling microphone, unidirectional
Sensitivity	-46 +-2 dB
Weight	25 g
Length	165 mm
Attachment	3,5 mm threaded stereo jack

Short Mic

Type	Electret, omnidirectional
Sensitivity	-39 +-2 dB
Weight	15 g
Length	90 mm
Attachment	3,5 mm threaded stereo jack

Skull Mic

Type	Dynamic, vibration-sensitive
Weight	30 g

Throat Mic

Type	Dynamic, vibration-sensitive
Weight	30 g
Attachment	Neck strap with hook and loop fastener

Approvals

2014/34/EU	ATEX – Directive – II 2 G Ex ib IIC T4 Gb
EN 60079-11	Equipment protection by intrinsic safety
EN 61000-6-2	Noise immunity standard for industrial environments
IP 67	Protection class for resistance to dust and splashing water
EN 443	Standard for firefighting helmets (as system approval with Dräger HPS® 7000)

Ordering Information

Models

Dräger HPS®-COM Boom Mic	37 03 820
Dräger HPS®-COM Short Mic	37 03 821
Dräger HPS®-COM Skull Mic	37 03 822
Dräger HPS®-COM Throat Mic	37 03 823
Dräger HPS®-COM dual: Skull-/Boom Mic	37 03 830
Dräger HPS®-COM dual: Skull-/Short Mic	37 03 831

Ordering Information

Spares parts Dräger HPS®-COM

Boom Mic spares set	37 03 825
Short Mic spares set	37 03 826
Skull Mic spares set	R 35 149
Throat Mic spares set	R 35 148
Metal clip spares set, 5 pieces	37 03 835
Spare set of adapters for Dräger HPS® 7000, H2, 10 pieces	37 03 836
Spare set of wind shields Boom Mic, 10 pieces	R 35 145
Spare set of wind shields Short Mic, 5 pieces	37 03 837
Spare set of hook and loop fastener for Skull Mic	37 03 832
HPS®-COM plug protection	R 80 042

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CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

REGION DACH

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION EUROPE

Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION MIDDLE EAST, AFRICA

Dräger Safety AG & Co. KGaA
Branch Office
P.O. Box 505108
Dubai, United Arab Emirates
Tel +971 4 4294 600
Fax +971 4 4294 699
contactuae@draeger.com

REGION ASIA PACIFIC

Dräger Singapore Pte. Ltd.
61 Science Park Road
The Galen #04-01
Singapore 117525
Tel: +65 6872 9288
Fax: +65 6259 0398
asia.pacific@draeger.com

REGION CENTRAL AND SOUTH AMERICA

Dräger Panamá Comercial
S. de R.L.
59 East Street, Nuevo Paitilla,
House 31, San Francisco Town
Panama City, Panama
Tel +507 377-9100 / Fax -9130
servicioalcliente@draeger.com

Locate your Regional Sales
Representative at:
www.draeger.com/contact

