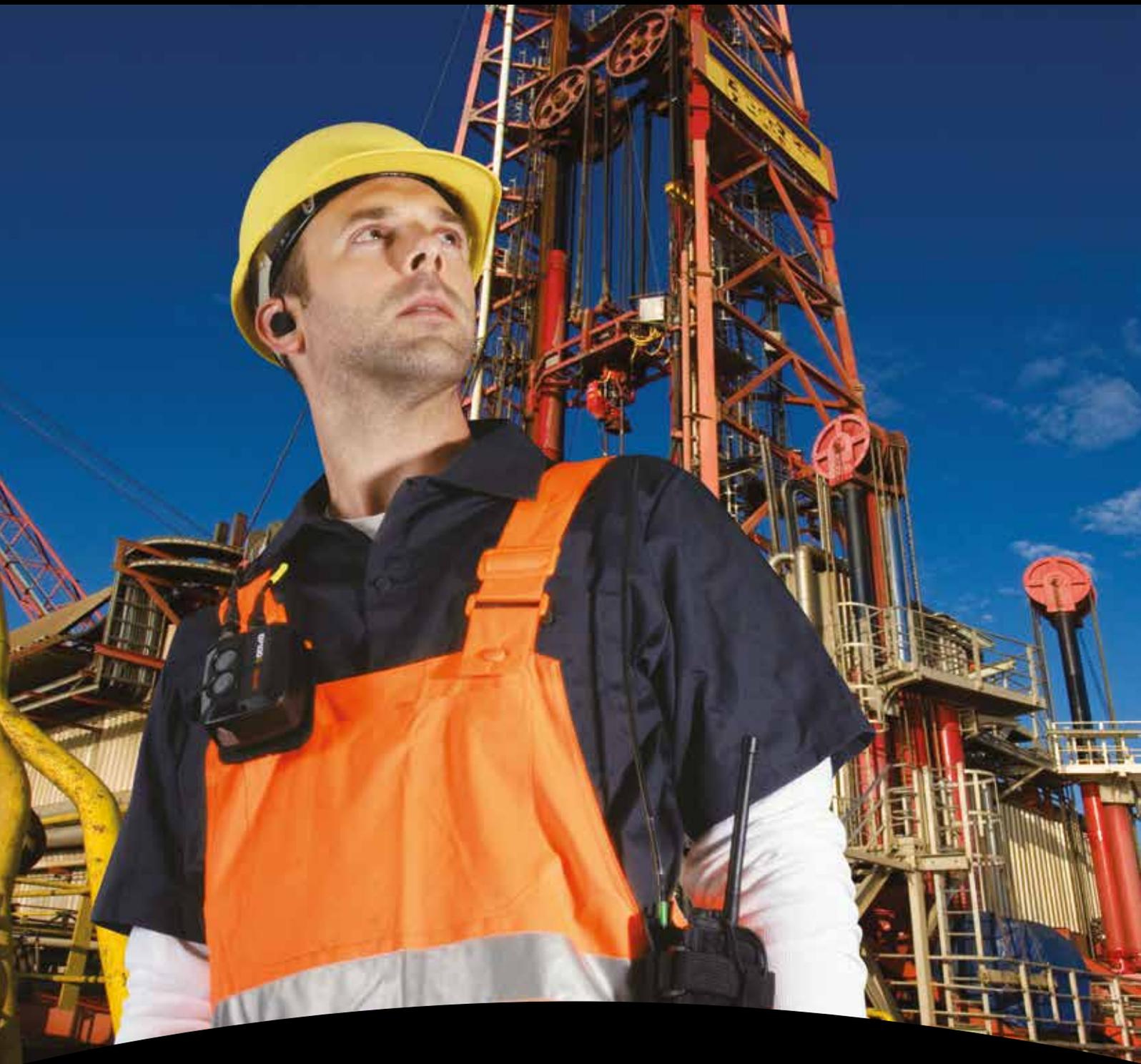


QUIETPRO® QP100Ex

Honeywell



INTELLIGENT HEARING PROTECTION
AND COMMUNICATION SYSTEM

Connect and protect in high noise.

The clearest communication and verifiable protection available for adapting to rapidly changing noise environments

The ability for workers in high-noise environments to identify, process, and comprehend critical information while communicating clearly is essential to the safety of the entire work team.

Personal real-time noise monitoring to prevent hearing loss

QUIETPRO® QP100Ex uses patented in-ear dosimetry to measure every sound that reaches the user's eardrum. Dramatically more precise than technology found in existing area or personal sampling devices, its in-ear dosimetry provides continuous monitoring of personal noise exposure, enabling safety managers and workers to address the potential of noise-induced hearing loss in real time. Audible and visual signals alert workers when they are approaching or have met their daily noise dose. Not only can this information prevent further occupational hearing loss, it can improve productivity by streamlining worker deployment, matching shift hours with permissible exposures more efficiently.

Clear communication even in rapidly changing, high-noise environments

Connected to two-way com radios, QUIETPRO® QP100Ex allows users to hear communications without compromising listening quality, even under high-noise situations. It also enables a user to speak at a normal level and be heard by the person on the other radio without picking up environmental noises - compressors or pumps in engine rooms, steel forging equipment, or draglines in surface mines - or compromising speech intelligibility.





QUIETPRO® QP100Ex is your first and best line of defense against noise-induced hearing loss — and ensures worker protection and safety.

Always listening, always on

QUIETPRO® QP100Ex's bionic hearing expands your workers' personal situational awareness, understanding, and communication by adapting to changing noise levels. This allows your workers to remain aware of their surroundings, assess rapidly changing environments and potential threats, and reduce further exposures to hazardous noise.

Intrinsically safe for potentially explosive environments

Developed in conjunction with Statoil on its offshore platforms, QUIETPRO® QP100Ex is intended for use in potentially explosive atmospheres, and is ideal for oil & gas, mining, primary metals, and energy production applications.

Improving worker performance and communication

QUIETPRO® QP100Ex enhances workers' performance through their heightened ability to communicate with fellow workers and better understand their environment. The system's ultra-fast digital processor provides active hearing protection that is seamless to the user throughout continuous, intermittent, and impact noise environments.

In-ear headset.

QUIETPRO® QP100Ex captures voices through the headset's microphone inside the eartip via air conduction. This eliminates pickup of ambient sounds commonly experienced with external microphones, enabling workers to communicate clearly. The in-ear headset is ideal for workers who operate in confined spaces or who are wearing head protection (e.g. respirators, welding shields).

Patented automatic fit check.

Upon eartip insertion and system startup, QUIETPRO® QP100Ex performs a quick calibration check to detect proper fit, validating adequate hearing protection and clear communication in each ear. It alerts the user if he/she does not achieve a minimum level of protection and is required to refit.

Fully adaptive hearing protection.

QUIETPRO® QP100Ex's bionic hearing expands your workers' personal situational awareness, understanding, and communication by not only adapting to changing noise levels but also amplifying sounds up to 5X normal hearing. This allows your workers to remain aware of their surroundings, assess rapidly changing environments and potential threats, and reduce further exposures to hazardous noise. The control unit includes volume control buttons, permitting the user to reduce or increase the level of the surrounding sound.

Superior digital processing.

Exterior microphones constantly analyze surrounding sounds, adapting hear-through continuously to facilitate natural hearing. QUIETPRO® QP100Ex's patented digital signal processing synthesizes allowable incoming signals, feeding the user fully optimized sound throughout continuous, intermittent and impulse noise. Result: the industry's clearest communication especially in rapidly changing, high-noise environments.

Digital Active Noise Reduction.

Our patented digital Active Noise Reduction (ANR) technology delivers truly revolutionary results by continuously monitoring ambient sound, and reducing the levels of noise across the spectrum of frequencies to acceptable levels in real time. This allows the user to hear all sounds at safe levels, and provides increasing low frequency attenuation for clear, intelligible communication.

Exclusive in-ear dosimetry.

QUIETPRO® QP100Ex provides a real-time measurement of the worker's protected and unprotected noise exposure throughout the day, creating a verifiable measure of noise exposure.



Connect and protect: Life-critical communication and smart, verifiable hearing protection

For workers in high-noise environments, reliable communication and safety are life-critical necessities.

Workers need protection against damage to their hearing, and in high-noise environments, noise-induced hearing loss can be a real problem. Protection alone is not enough. They also need to hear in those environments, to remain aware of their surroundings. And they need to be able to communicate clearly.

When a helicopter lands on an offshore platform, the noise level is so extreme that the number of landings per day is sometimes limited. At a steel forge, heavy-duty hammers, presses, and rollers can generate noise levels of 108 to 112 dBA. Yet while workers need protection from these dangerous noise levels, they also must remain connected to their surroundings.

Developed in conjunction with international energy company Statoil, QUIETPRO® QP100Ex is the only intelligent hearing protection and communication system that provides smart personal hearing protection, verifiable personal noise exposure measurement, and the clearest communication throughout a full range of work environments.

QUIETPRO® QP100Ex transforms a worker's hearing and ability to communicate clearly from a point of vulnerability to a productivity advantage.

QUIETPRO® QP100Ex Specifications

ATEX Certification Ex ia IIB T4 Ga (Category 1 Approved for Zone 0, Equipment group 2, Gas group IIB Temperature class T4)

IECEX Scheme Ex ia IIB T4 Ga

Physical Data

Usage Temp -30°C to +50°C

Power Supply

Battery Rechargeable Li-Ion

Capacity Continuous use 40 hours / Charger time 4h

Environment

IP67 Dust and water protection (1m under water for 30 min)

Weight

QP100ex Control unit 255g

Headset 75g

Eartip Attenuation Data (Passive) PROTIPS

SNR 34 - H 35 dB - M 32 dB - L 29 dB. Attenuation data tested according to EN352-2:2002

Frequency Hz	125	250	500	1000	2000	4000	8000
Mean Attenuation	31,1	29,3	36,1	35,3	37,4	36,8	46,6
Standard Deviation	3,5	3,1	4,6	4,5	2,5	2,8	4,3
APV	27,6	26,2	31,5	30,8	34,9	34,0	42,2

Sound restoration characteristics according to EN 352-7:2002 (volume control in maximum position):
Criterion levels H= 119dBA M= 114dBA L= 114dBA

Lead them to safety – Build an enduring culture of safety through comprehensive education, innovative technologies, and comfortable, high-performance products. Honeywell Safety Products is the ideal partner for a cultural transformation that inspires workers to make safer choices on their own.

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