

## **Honeywell North® PA800 Series**

### **PA800EU Welding Helmet + PA811EU Welding Helmet with Hard Hat**

The Honeywell North Primair® PA800 Series welding helmet was designed for a variety of applications where a welding helmet with powered air purifying respirator is required. The welding helmets have built-in air delivery systems that are an integral component of the Honeywell North Primair PA700 series / PA500 series PAPR system. Additionally, the PA811EU is integrated with a Honeywell North N10 hard hat to provide the wearer with additional hard hat protection and safety.

### **Protection Type**

The PA800 Series Welding Helmet (PA810EU and PA811EU) are designed and approved for use with the Honeywell North Primair PA700 and Primair 500 Series powered filtering respiratory protective device (hereinafter RPD), which are ideally suited for applications where non-powered air purifying devices are not practical for use or a higher protection factor is required, but only where the atmospheres are not immediately dangerous to life and health (IDLH).

### **Certifications**

The PA811EU Welding Helmet with Hard Hat product as a part of the powered air purifying system, complies with the European Parliament and Council Regulation 2016/425/EU for Personal Protective Equipment and subsequent amendments.

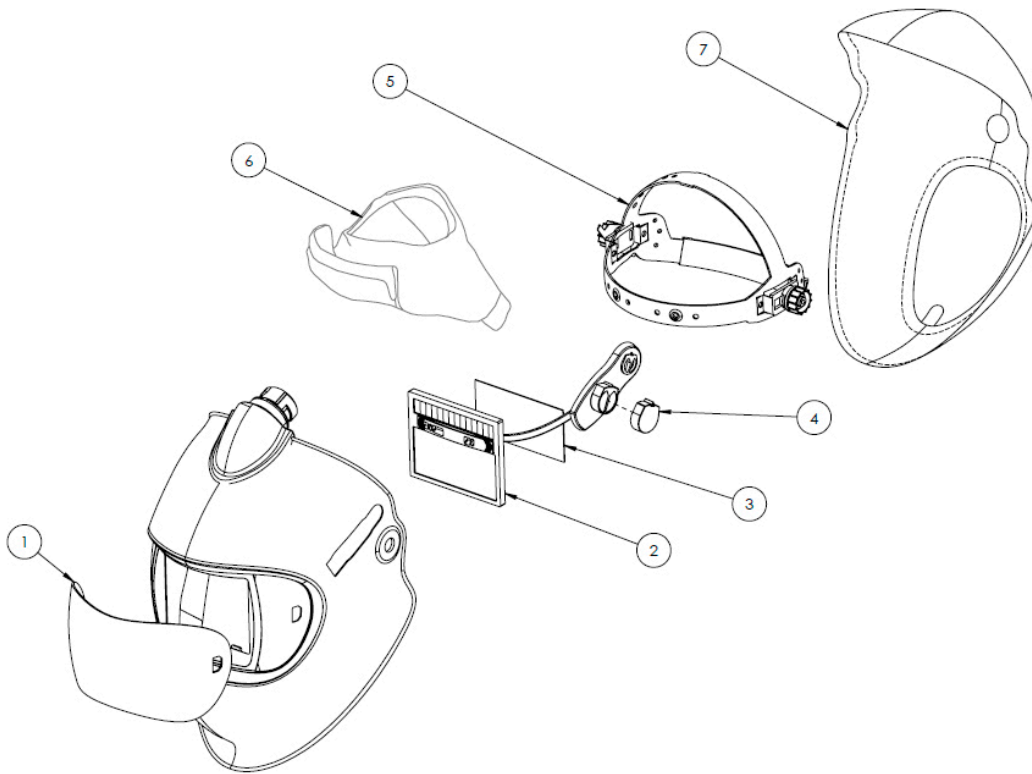
EN 12941:1998 + A1:2003 + A2:2008

EN 175:1997, EN 397:2012+A1:2012, EN 166:2001

The complete declaration of conformity can be found at: <https://doc.honeywellsafety.com/>

## Major Components

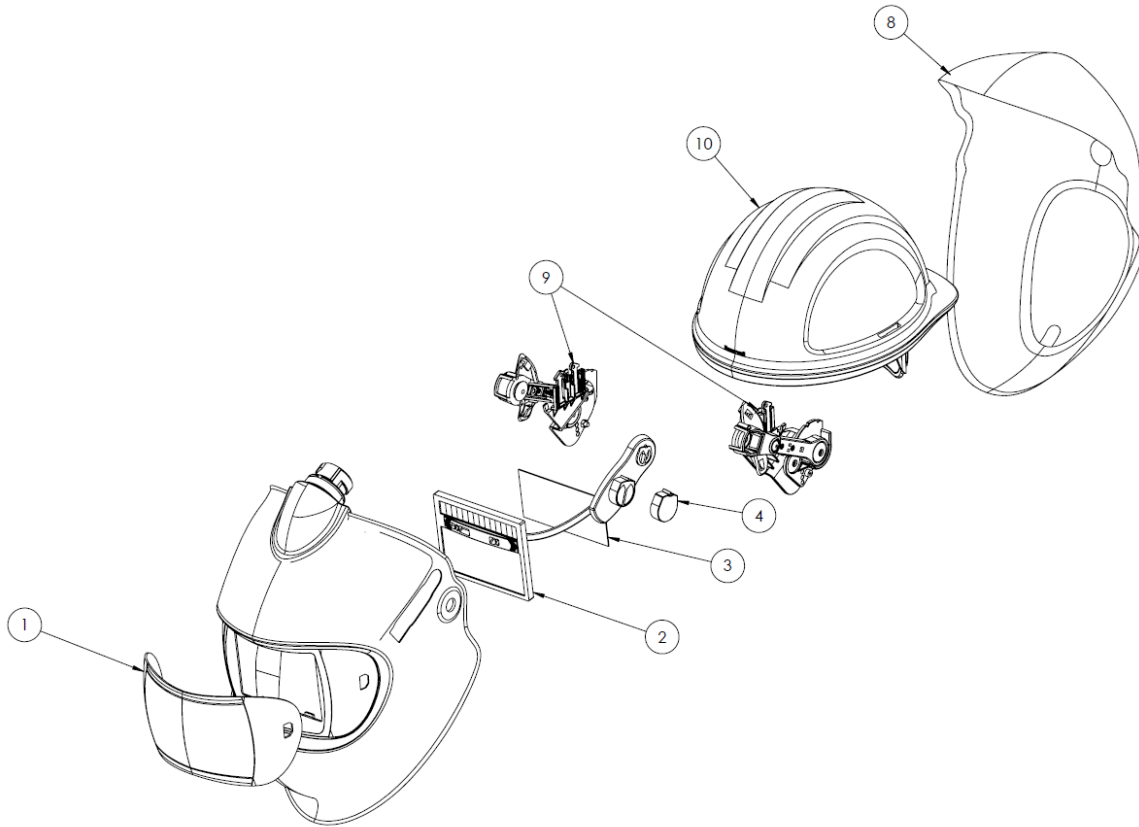
### PA800 Series Welding Helmet



### Key PA800 Series Helmet Design Attributes & Technology

1. Grinding Shield – located on the outside of the auto-darkening filter (ADF) – protects the ADF from damage due to slag or debris. Combined with the proprietary ADF with the lightest shade level (2.5), allows welders to switch from welding to grinding without having to adjust the helmet. Improves productivity and reduces the risk of damaging the ADF (Replacement Part #PA8221)
2. ADF – light shade range from 2.5 (lightest in the market) and 8-12 for auto-darkening
3. Inside ADF shield – further protection of the ADF inside the helmet (Replacement Part #PA8222)
4. External ADF adjustment controls – allows shade level adjustment and grinding-mode activation/deactivation while wearing the helmet. Controls are designed to be accessible, even when wearing welding gloves. The grinding-mode control is protected by a silicone rubber cover (Replacement Part #PA825)
5. Internal suspension system – features a ratchet adjustment knob with a spring-loaded locking mechanism that reduces the risk that the headband tension loosens. The suspension also features adjustments to the helmet angle and flip-up stop positions.
6. Sweat band (Replacement Part #PA824)
7. Welding Helmet – lightweight (24 oz.), designed to lessen worker fatigue but also durable to survive the rigors of daily welding activities.

**PA811EU Welding Helmet with Hard Hat**



Item #	P/N	Description
1	PA8221	Lens Cover, Front
2	PA821	Auto Darkening Filter (ADF)
3	PA8222	Lens Cover, Inside
4	PA825	Grind Button Cover, Silicone
5	PA823	Headgear, Helmet
6	PA824	Sweat Band, Front
7	PA827	Neck / Face seal
8	PA830	Neck / Face Seal, Welding, Hard Hat
9	PA826	Hinge Attachment Kit, Hard Hat, N10
10	N10R010000	N10R Ratchet assembly
N/A	PA031L	BREATHING TUBE (40")
N/A	PA036	Breathing Tube, PA800 Welding (47")
N/A	PA8331	Chest Protector, Leather
N/A	PA8332	Head/Neck Protector, Leather
N/A	PA828	Flame Resistant Hose Cover
N/A	PA829	Dust Bag

## PA800 Series Technical Specifications

Description: Welding mask with extra bright view in the light state (Shade Level 2.5), TrueColor Filter, auto-darkening filter, infinite shade level selection from Shade Level 8–12, grind mode operation, infinite adjustable delay from 0.1s to 1.0s, LED warning for low battery and grind mode.

Item	Specification
<b>Shade Level</b>	SL2.5 (light mode) SL8 – SL12 (dark mode)
<b>UV/IR Protection</b>	Maximum protection in light and dark modes
<b>Switching time from light to dark</b>	100µs (23°C / 73°F) 70µs (55°C / 131°F)
<b>Switching time from dark to light</b>	0.05 – 1.0s
<b>Dimensions of ADF</b>	90 x 110 x 7mm / 3.55 x 4.33 x 0.28"
<b>Dimensions of field of view</b>	50 x 100mm / 1.97 x 3.94"
<b>Power Supply</b>	Solar cells, 2 pcs. LI batteries 3V replaceable (CR2032)
<b>Weight</b>	680.4g / 24oz
<b>Operating Temperature</b>	-10°C – 70°C / 14°F – 157°F
<b>Storage Temperature</b>	-20°C – 80°C / -4°F – 176°F
<b>Classifications per EN379</b>	Optical class = 1 Light scatter = 1 Homogeneity = 1 Angle of vision dependency = 2
<b>Approvals / Standards</b>	EN 12941:1998 + A1:2003 + A2:2008 EN 175:1997, EN 397:2012+A1:2012, EN 166:2001
<b>Approval Respiratory Protection</b>	
Honeywell North Primair PA500 PAPR with PA810 Welding Helmet	EN12941 (TH2)
Honeywell North Primair PA500 PAPR with PA811 Welding Helmet with Hard Hat	EN12941 (TH3)
Honeywell North Primair PA700 PAPR with PA810 Welding Helmet	EN12941 (TH2)
Honeywell North Primair PA700 PAPR with PA811 Welding Helmet with Hard Hat	EN12941 (TH3)

## PA800 Series Ordering Information

A complete approved powered air purifying respirator includes a blower, battery pack, battery charger, belt, flow meter, breathing tube, filter cartridge and headpiece. The Primair PA800 Series (PA810EU, PA811EU) may only be used together with the Honeywell Primair® PA700/PA500 PAPR series blowers, filters and accessories as certified.

Part#	Description	Included in Product Packaging
<b>KITS</b>		
PA701WEUH	PA700/PA800 Welding Kit w/Helmet	Includes PA810EU helmet, PA036 breathing tube, PA7P particulate filter (box of 5), PA71A1 filter cover, and PA701WEU PAPR welding kit
<b>BELTS</b>		
PA751W	PA700 Welding Belt	One replacement welding belt
<b>BREATHING TUBES</b>		
PA031L	Breathing Tube – 1 m (40 in)	One breathing tube
PA036	Breathing Tube – 1.2 m (47 in)	One breathing tube
PA828	Cover, Hose, Flame-Resistant	One flame-resistant hose cover for PA031L or PA036
<b>HOODS/HELMETS</b>		
PA810EU	2.5 ADF PAPR Welding Helmet	One PA810EU welding helmet assembly
PA811EU	2.5 ADF PAPR Welding Helmet with Hard Hat	One PA811EU welding helmet with hard hat assembly
PA821	ADF, Replacement, PA800 Series	One ADF replacement lens
PA8221	Lens Cover, Front, 5/Pk	Five (5) external grinding shield covers
PA8222	Lens Cover, Inside, 5/Pk	Five (5) internal covers
PA824	Sweatband, Welding Helmet	Two (2) sweatbands
PA826	Attachment Clip Set, Hard Hat, for PA811EU	One Attachment Clip Set for PA811EU
PA827	Seal, Face, Welding Helmet	One face seal for PA810EU
PA830	Seal, Face, Welding Helmet w/Hard Hat	One face seal for PA811EU
<b>REPLACEMENTS</b>		
PA823	PA800 Headgear – replacement	One headgear per package
PA825	Cover, Grind Button, Silicone, 10/Pk	Ten (10) grind button covers per package
<b>ACCESSORIES</b>		
PA8331	Chest Protector, Leather	One chest protector per package
PA8332	Head and Neck Protector, Leather	One set of head and neck protectors per package

## Additional Ordering Information

SKU	DESCRIPTION	QTY/ CASE	LENGTH IN (CM)	WIDTH IN (CM)	HEIGHT IN (CM)	WEIGHT LB (KG)
<b>KITS</b>						
PA701-810	PAPR Welding Kit w/Helmet & HEPA	1	17.6 (44.7)	12.1 (30.7)	24.0 (61.0)	8.7 (3.9)
<b>BREATHING TUBES</b>						
PA031L	Breathing Tube, Loose Fit, Long	10	19.0 (48.2)	9.5 (24.1)	9.5 (24.1)	3.5 (1.6)
PA036	Breathing Tube, PA800 Welding Helmet	10	19.0 (48.2)	9.5 (24.1)	9.5 (24.1)	3.5 (1.6)
<b>ACCESSORIES</b>						
PA828	Flame Resistant Hose Cover	1	9.0 (22.9)	9.0 (22.9)	0.5 (1.27)	0.1 (0.04)
PA8331	Chest Protector, Leather	1	7.8 (19.7)	20 (50.8)	0.5 (1.27)	0.3 (0.14)
PA8332	Neck Protector, Leather	1	15.0 (38.1)	9.5 (24.13)	0.5 (1.27)	0.6 (0.27)
PA751W	PA800 Welding Belt	1	28.0 (71.1)	7.5 (19.0)	0.5 (1.3)	1.0 (0.45)
<b>REPLACEMENT PARTS</b>						
PA827	Face seal, Helmet	1	15.0 (38.1)	12.0 (30.48)	0.5 (1.27)	0.1 (0.04)
PA821	PA800 Helmet ADF replacement	1	4.5 (11.43)	3.5 (8.9)	1.5 (3.81)	0.3 (0.14)
PA825	PA800 Grind Button Cover, (10) pack	1	4.5 (11.43)	4.5 (11.43)	0.5 (1.27)	0.02 (0.01)
PA8221	Lens Cover – front, five (5) pack	1	7.0 (17.78)	4.2 (10.5)	4.0 (10.16)	0.3 (0.14)
PA8222	Lens Cover – back, five (5) pack	1	4.25 (10.8)	2.25 (5.7)	0.2 (.5)	0.2 (0.1)
PA824	Sweatband, helmet suspension	1	8.5 (21.6)	1.5 (3.81)	0.5 (1.27)	0.1 (0.04)
PA823	Headgear	1	10.0 (25.4)	4.25 (10.8)	4.5 (11.43)	0.3 (0.14)

## Limited Warranty

HONEYWELL INDUSTRIAL SAFETY warrants the Honeywell North Primair PA800 Series (PA810EU/PA811EU) Welding Helmet to the original owner to be free from defects in materials and workmanship for a period of one (1) year from the date of original shipment from Honeywell's factory. Honeywell's obligation under this warranty will be, at Honeywell's option, to repair or replace without charge the Honeywell North Primair PA800 Series Welding Helmet or any of its components found by Honeywell to have been defective during the warranty period, under the following terms:

- 1) The warranty claim is made (i) by the owner who purchased the **Honeywell North Primair PA800 Series Welding Helmet** new from Honeywell or an authorized Honeywell Distributor, and (ii) not more than three (3) months after the end of the warranty period.
- 2) The **Honeywell North Primair PA800 Series Welding Helmet** or component is found by Honeywell to have been defective in normal use and service during the warranty period of one (1) year from the date of purchase by the owner.
- 3) The **Honeywell North Primair PA800 Series Welding Helmet** or component is returned freight prepaid to Honeywell, either to its factory or to a Honeywell authorized service center and is thereafter returned to the owner freight collect.
- 4) This warranty does not apply (i) to any **Honeywell North Primair PA800 Series Welding Helmet** or component found by Honeywell to have become defective as a result of any accident, alteration, misuse, abuse, or servicing with parts not approved by Honeywell; (ii) to deterioration or aging of any component made of rubber or other elastomer since such components can be adversely affected by undue exposure to heat, sun, water, chemicals, ozone or other deteriorating elements; or (iii) facepiece lens, compressed-air cylinders and parts that become defective through normal use. The decision as to what constitutes normal use shall be made solely by HONEYWELL INDUSTRIAL SAFETY.
- 5) To maintain this warranty, the purchaser must perform maintenance and inspections as prescribed in the User's Instructions which shall include prompt replacement or repair of defective parts, and replacement of parts per the maintenance schedule as prescribed in the User's Instructions.

**THE OWNER ASSUMES ALL OTHER RISKS, IF ANY, SUCH AS THE RISK OF ANY DIRECT, INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE ARISING OUT OF THE USE OF, OR INABILITY TO USE, THE PRODUCT.**

SERVICING HONEYWELL RESPIRATORS WITH PARTS NOT APPROVED BY HONEYWELL WILL VOID THIS WARRANTY AND NIOSH APPROVAL FOR THE RESPIRATOR. THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED AND MAY NOT BE VARIED OR EXTENDED EXCEPT IN WRITING BY AN AUTHORIZED OFFICIAL OF HONEYWELL INDUSTRIAL SAFETY.