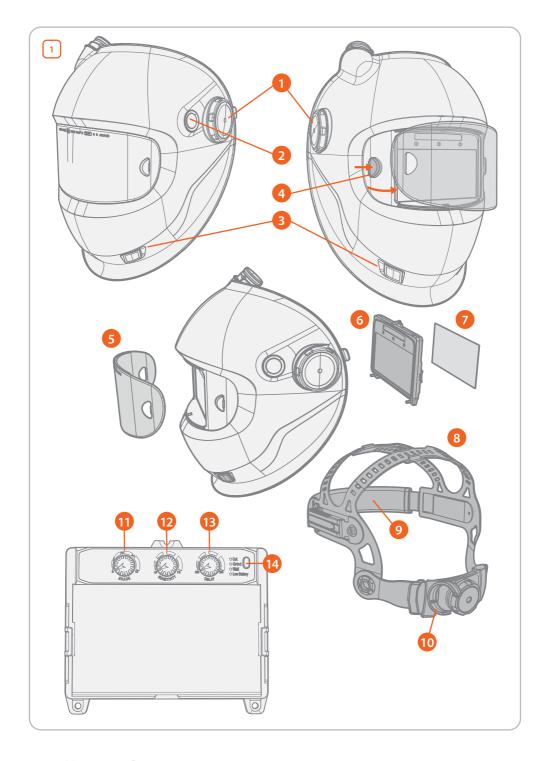
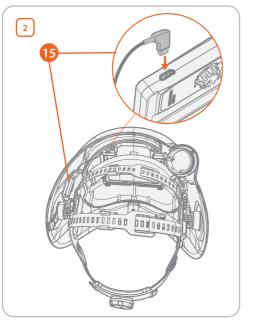
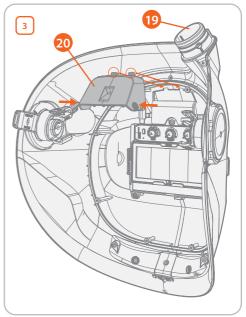
Zeta W201 **Zeta** W201x

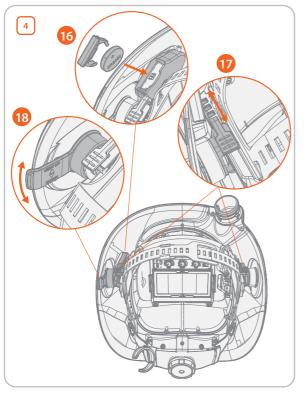


Operating manual – Brugsanvisning – Gebrauchsanweisung – Manua de instrucciones – Käyttöohje – Manuel d'utilisation – Manuale d'uso – Gebruiksaanwijzing – Bruksanvisning – Instrukcja obsługi – Manual de utilização – Manual de utilizare – Инструкции по эксплуатации – Bruksanvisning – Kullanım ve bakım kılavuzu – 操作手册











1. Introduction

1.1 Zeta W201 and W201x

Zeta W201 and W201x welding helmets are designed for arc welding (MMA, MIG/MAG, TIG), grinding, gouging and plasma cutting.

Zeta W201 and W201x welding helmets provide the users with protection for the eyes and face. The helmets are equipped with auto-darkening filter ADF SA 60Z.

When used together with a compatible powered filter unit (PFU 210e) or supplied air unit (RSA 230), Zeta W201 and W201x models also protect the user's respiratory system providing the highest level of respiratory protection: TH3 classification with PFU 210e, and 3B classification with RSA 230

The Zeta W201x model has also integrated LED work lights that can be used when connected to the PFU 210e powered filter unit.

1.2 About this manual

Read this manual carefully before using the equipment for the first time. Pay particular attention to the safety instructions.

i	Note	Gives the user a piece of information of particular importance.
\triangle	Caution	Describes a situation that may result in damage to the equipment or system.
A	Warning	Describes a potentially dangerous situation that may result in personal damage or fatal injury.

1.3 Disclaimer

While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions. Kemppi reserves the right to change the specification of the product described at any time without prior notice. Do not copy, record, reproduce or transmit the contents of this quide without prior permission from Kemppi.

2. Safety



Warning:

- It is strictly forbidden to use any other than Kemppi branded parts or accessories with Kemppi's personal protection equipment. If you do not respect this safety regulation, serious damage for your health may occur.
- We recommend a usage period of 5 years. The period of use depends on various factors such as use, cleaning, storage and maintenance. Inspect the helmet before each use. Replace damaged or worn parts.
- · Use all adjustment features for maximum protection.
- Never weld with the welding visor up or without the welding filter.
- If the auto-darkening filter (ADF) does not darken when the arc ignites, stop welding immediately.
 Inspect the ADF and its power supply. Change if necessary.
- Always use welding filters together with suitable protection plates.
- Never use welding filter without inner protection plates.
- Never use a scratched or damaged welding filter and ocular
- Materials which may come into contact with the wearer's skin may cause allergic reactions to susceptible individuals.
- Only operate this product within the temperature range -5...+55 °C.
- The product is not intended for use in environments with a risk of explosion.
- The helmet does not protect against explosive devices or corrosive liquids.
- The helmet is not suitable for laser welding and oxyacetylene welding/cutting processes.
- The helmet gives designed protection against high speed particles only at room temperature (EN ISO designation E) and only when all helmet components are properly attached, as described in the manual.
- When helmet is worn over any spectacles, they may transmit the impact of high speed particles, thus creating a hazard to the wearer.
- If the symbols of the markings are not the same for different parts of the protection equipment, the lower protection level shall be assigned to the complete protection equipment.
- Adequate protection cannot be provided by the RPD (respiratory protection device) in certain highly toxic atmospheres.
- At very high work rates the pressure in the facepiece can become negative at peak inhalation flow.

ENGLISH

- 3. Parts 1 2 3 4 5
- 1. Opening/closing tightness adjuster
- 2. Grinding mode (clear view) button
- 3. LED work lights (W201x model only)
- 4. Protection plate release button
- Protection plate
- 6. Auto-darkening welding filter (ADF SA 60Z)
- 7. Inner protection plate
- 8. Headband, adjustable
- 9. Sweatband, washable
- 10. Air hose holder
- 11. ADF: Shade adjustment
- 12. ADF: Sensitivity adjustment
- 13. ADF: Delay adjustment
- 14. ADF: Operation mode selector (Cut/Grind/Weld)
- 15. ADF: Battery connection
- 16. ADF battery and battery holder
- 17. Distance slide adjusters
- 18. Viewing angle adjuster
- 19. Air duct for respiratory protection system
- 20. Air duct nozzle
- 21. Face seal.

4. Using helmet features

4.1 Taking into use 6

- 1. Adjust the helmet for your head:
 - Use the top bands to adjust how deep the helmet sits (a).
 - B. Use the distance slide adjuster to change the distance of the helmet from your face (b). The welding filter should be at a 1-2 cm distance from the nose. Ensure that the helmet sits comfortably and that both sides are equally positioned.
 - C. Turn the knob in the rear to tighten and secure the headband (c).
- Adjust the helmet's opening/closing tightness if needed (d).
- Turn the viewing angle adjuster to tilt the viewing angle upwards or downwards (e).
- 4. Connect the air hose to the helmet and to the respiratory protection device: 12
 - A. Turn the air hose connector (1) to fully expose the openings (2).
 - B. Align the groove in the air hose connector with the tab in the air duct (3).

- C. Push the connector into the air duct.
- D. Turn the connector clockwise to snap-lock the air hose into its place.
- E. Secure the air hose into the air hose holder to keep it out of the way.
- Turn the respiratory protection device on. (Refer to your powered filter units's / air supply's documentation for more information.)
- Tighten the face seal properly around your face using all the tighteners in the face seal.



Warning: If the face seal is not tight, the respiratory protection system may not offer the best possible protection.

The three face seal snap fasteners must also always be fastened to maintain TH3/3B classification. 11

4.2 Using work lights (W201x) 11

Zeta W201x helmet has LED work lights that are powered by the powered filter unit PFU 210e battery. The battery is connected when the air hose is connected to the welding helmet.



Note: The LED work lights are not available for use with RSA 230.

- For charging and checking the battery, refer to the powered filter unit's documentation.
- Use the OFF/AUTO/ON selector to turn the lights on and off. The AUTO mode turns the lights off in bright conditions (e.g. during welding) and then back on.



Caution: Never use a damaged battery unit. Avoid exposure to extreme temperatures, direct sunlight, moisture, sand and dust.

Observe the battery unit while charging. If the battery unit becomes hot, smokes or there are visible deformations in the battery unit during charging, stop charging immediately.

4.3 Using quick grinding view 8

The Zeta W201/W201x helmet's auto-darkening welding filter (ADF SA 60Z) can be switched to the grinding mode (clear view) also by long-pressing the grinding mode button on the side of the helmet.

To return to welding mode, only short press is needed.

5. Replacing parts

5.1 Removing headband 10

- 1. Press and hold down the distance slide adjuster.
- Push the headband connector forwards, out of the distance slide adjuster.

5.2 Attaching headband 10

- Bring the headband connector in front of the distance slide adjuster.
- Press down the slide adjuster button while pushing the headband connector through the distance slide adjuster.
- Slide the headband connector in place so that the slide adjuster pin locks into one of the grooves in the headband connector.
- 4. Adjust the helmet distance from your face.

5.3 Replacing outer protection plate 1

- To remove the outer protection plate, press the protection plate release button (4) on the right and pull the protection plate (5) out.
- To install the outer protection plate, place it on the left fastener first and then snap the right side in place.



Note: Make sure both sides are properly aligned and in place.

5.4 Replacing inner protection plate 8

- To remove the ADF inner protection plate, pull the bottom of the plate out slightly and slide the plate out from below.
- To install the inner protection plate, slide the plate up into the grooves in the ADF. Make sure the plate snaps into place properly.

5.5 Replacing face seal 10 11

- Release the three snap fasteners keeping the face seal attached to the headband (pic 11).
- 2. Remove the headband.
- Remove the eight small screws holding the face seal frame.
- Take the face seal out. Note that the distance slide adjusters go through the openings in the face seal.
- To install the face seal, pass the distance slide adjusters through the openings in the face seal.

- Secure the face seal in place with the eight small screws.
- 7. Attach the headband back in place.
- 8. Fix the face seal to the headband with the three snap fasteners (pic. 11).

6. Maintenance

Inspect the helmet after each use. Replace worn or damaged parts.

6.1 Cleaning 9

- Clean the protection plate with mild soap, lukewarm water and a soft cloth.
- Wipe the welding filter lens with a soft, clean cloth, if necessary.
- Remove the air duct nozzle by pressing the nozzle on both edges. Wipe the nozzle and the section behind it clean with a soft cloth and mild detergent or suitable disinfecting mask spray. Dry well before reassembling.
- Detach and wash the sweatband and face seal, if necessary.



Note: The fire retardant on the face seal gradually wears out in wash. Wash the face seal max. 5 times.

7. Storage

Store the Zeta helmet in an environment with temperature between -20...+50 $^{\circ}\text{C}$ and humidity < 80 % Rh.

Store and transport the helmet and the accessories in the original bag or package.

8. Technical data

Welding helmet	Zeta W201 / W201x
Compliant with standards:	Regulation 2016/425
	EN ISO 16321:2022 W15 E HM 1-M EN
	12941:1998+A1:2003+A2:2008TH3
	EN 14594:2018 3B
	AS/NZS 1337.1:2010 B - LIC40174
	AS/NZS 1338.1:2012
	AS/NZS 1716:2012 - LIC 40175
Type inspected and certified by:	CE: ECS GmbH. Hüttfeldstraße 50, 73430 Aalen, Germany. Notified Body No. 1883. (Module B)
	CE: CCQS Certification Services Limited, Notified body No. 2834, Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin 15 D15 AKK1 Dublin, Ireland (Module D).
	CE: FORCE Certification A/S, Park Alle 345, 2605 Brøndby, Denmark. Notified Body No. 0200. (Module B)
	UKCA: CCQS UK Ltd, 25 Wilton Rd, Pimlico, London SW1V 1LW, UK. Approved Body No. 1105. (Module B & D)
	SAI Global Certification Services Pty Limited. 680 George Street, Sydney NSW 2000, GPO Box 5420 Sydney NSW 2001, Australia.
Manufacturer:	Kemppi Oy PL 13, Kempinkatu 1, 15801 Lahti, Finland
Operating temperature:	-5+55 °C
Recommended humidity for use:	< 80 % Rh
Storage temperature:	-20+50 °C
Materials:	Plastics: PA, PP, PC, ABS, POM
	Sweatband material 100 % cotton, padding foam plastic
Weight:	Zeta W201: 680 g, Zeta W201x: 710 g

Welding filter	ADF SA 60Z		
Welding filter type:	Auto-darkening, factory-installed		
Operating temperature range:	− 5 + 55 °C <80% Rh		
Storage temperature range:	− 20 + 50 °C <80% Rh		
Manufacturer:	Kemppi Oy PL 13, Kempinkatu 1, 15801 Lahti, Finland		
ADF switching time:	0.1 ms		
ADF light state:	Shade 2.5		
ADF UV/IR protection:	Protection at all times		
Battery, replaceable:	1 x CR2450		
Materials:	Plastics: PA, PC; Glass		

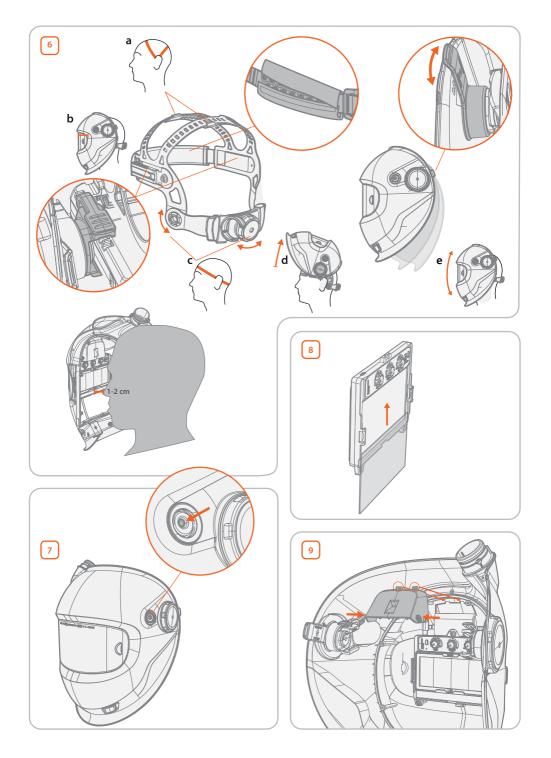
9. Helmet and ocular markings Eg. 16321 KMP W15 E 1-M CE

Helmet shell		
Eg. 16321 KMP W15 E 1-M CE		
16321	Light state scale number	
KMP	Identification of the manufacturer	
W	Welding protector	
15	Maximum filter shade	
Е	Impact level	
1-M	Average medium head size	
CE	CE marking (European Conformity	

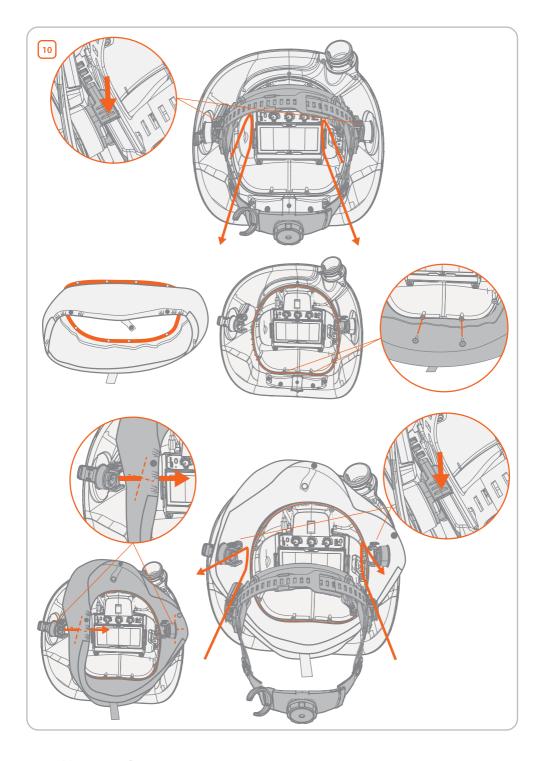
Automatic welding filter				
Eg. 16321 KMP W2.5 / 8-12 V1 +TIG CE				
W	Welding filter			
2.5 / 8-12	3-12 Light shade / dark shade range			
V1 Angle dependence class				
+TIG Applicable for TIG welding				

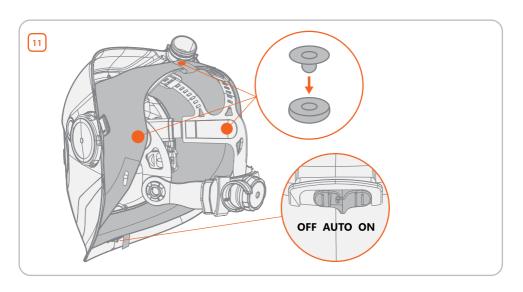
10. Ordering codes

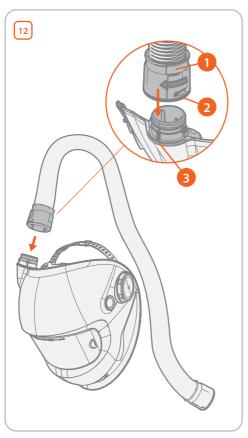
Part	Ordering code
Face seal Zeta W	SP024160
Headband	SP009023
Sweatband 2 pcs	SP9873018
Comfort band padding 5 pcs	SP013231
Protection plate 5pcs	SP022579
Inner protection plate 5 pcs	SP023221
ADF SA 60Z auto-darkening welding filter	SP9873076
Magnifying lens holder	SP023179
Magnifying lens 1.0x	9873260
Magnifying lens 1.5x	9873261
Magnifying lens 2.0x	9873262
Magnifying lens 2.5x	9873263
Helmet bag, small	SP023780
Universal neck protector	SP015579



Zeta W201/W201x







Zeta W201/W201x

	MMA (E-Hand)	MIG, Ss	MIG, AI	MAG, CO₂	TIG	Gouging	Plasma cutting
15 A					9		
20 A 30 A	9				10		
40 A 60 A	10	10	10	10	11		
80 A 100 A	11			11			11
125 A 150 A	11	11	11	12	12	10	
175 A 200 A			12		13	11	12
225 A 250 A	12	12		13		12	
275 A 300 A			13		14	13	13
350 A 400 A	13	13	14	14		14	
450 A 500 A	14	14					
550 A 600 A	15	15	15	15		15	



Welding helmet weight – Svejsehjelmens vægt – Gewicht der Schweißerschutzmaske – Peso de la máscara de soldadura – Hitsauskypärän paino – Poids du masque de soudage – Peso del casco per saldatura – Gewicht lashelm – Sveisemaskevekt – Masa przyłbicy – Peso da máscara de soldagem – Macca сварочной маски – Svetshjälmens vikt – 申焊帽重量

See information supplied by the RPD manufacturer – Se oplysningerne fra RPD-producenten – Siehe die vom RPD-Hersteller bereitgestellten Informationen – Véase la información suministrada por el fabricante de la unidad RPD – Katso hengityksensuojaimen valmistajan toimittamat tiedot – Voir les informations fournies par le fabricant du RPD – Vedere le informazioni fornite dal produttore RPD – Zie de informatie die is verstrekt door de RPD-fabrikant – Se informasjon som leveres av RPD-tilvirker – Patrz informacje podane przez producenta zaworu – Veja as informações fornecidas pelo fabricante do RPD – См. информацию, предоставленную производителем средств индивидуальной защиты органов дыхания – Se information från RPD-tillverkaren – 请参见 RPD 制造商提供的信息



Declarations of Conformity – Overensstemmelseserklæringer – Konformitätserklärungen – Declaraciones de conformidad – Vaatimustenmukaisuusvakuutuksia – Déclarations de conformité -Dichiarazioni di conformità – Verklaringen van overeenstemming – Samsvarserklæringer – Deklaracje zgodności – Declarações de conformidade – Заявления о соответствии – Försäkran om överensstämmelse – 符合性声明





