# TECHNICAL DATA

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| Desription | **Fully automatic welding helmet (no manual adjustment necessary) with flip-up function for a clear view.**<br>**True-color view, ADF with shade level range 4/5-14M with autopilot (automatic shade level adjustment), +/- 2 individual manual offset, sensitivity adjustment, and opening delay with or without twilight function.** |
| Shade levels | **Open / clear view: shade level 1**<br>**Closed / inactive: shade level 4**<br>**Closed / active: shade levels 5-14** |
| Autopilot | **Automatic shade level adjustment for shade level range 5 to 14 with individual calibration option of ± 2.** |
| Power supply | **Photovoltaic cell, 2 pcs batteries 3V exchangeable (CR2032)** |
| Operating time batteries | **Approx. 3,000 hours (operating)** |
| Sensors | **3 sensors** |
| Sensitivity | **Infinite adjustment, new with "Super High" range** |
| Switching time | **Light to dark:**<br>**0.100 ms at room temperature**<br>**0.100 ms at 55°C / 131°F**<br>**Dark to light:**<br>**0.3 s or 1.5 s (with twilight function)** |
| Field of view | **Flip-up open: 82 x 102 mm**<br>**Flip-up closed: 50 x 100 mm** |

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| Classification EN379 | **Optical class: 1**<br>**Diffusion of light class: 1**<br>**Variations in luminous transmittance class: 1**<br>**Angle dependence of luminous transmittance class: 2** |
| Shape stability | **Welding mask: up to 220°C / 428°F**<br>**Front cover lens: up to 137°C / 279°F** |
| Eye protection | **Ultraviolet / Infrared Protection: maximum protection at any shade level** |
| Operating temperature | **-10°C to +70°C / 14°F to 158°F** |
| Storage temperature | **-20°C to +80°C / -4°F to 176°F** |
| Weight | **Standard helmet: 530 g / 18.7 oz**<br>**PAPR helmet: 730 g / 25.8 oz** |
| Application ranges | **Any electric arc welding process Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Plasmacutting & Oxy-gas Welding**<br>*Prohibited for laser welding!* |
| Scope of delivery | **Welding helmet, instruction manual, storage bag, batteries, warranty card** |
| Standards | **CE, ANSI Z87.1, EAC, complies with CSA Z94.3** |
| Warranty | **2 years (except batteries)**<br>**1 year warranty extension for online product registration within the first 6 month.**<br>http://register.optrel.com |

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