

anorama Nova RP

Full face masks with plug-in connector Instructions for Use

For your safety

Strictly follow the instructions for use. Any use of the full face mask requires full understanding and strict observation of these instructions. The mask may only be used for the purposes specified here.

Maintenance: Note the instructions in the section entitled "Maintenance intervals". Only original Dräger parts may be used for maintenance. We recommend that a service contract be signed with your local DrägerService.

Liability for proper function or damage: Liability for the proper function of the full face mask is irrevocably transferred to the owner or operator to the extent that the mask has been serviced or repaired by personnel not employed or authorized by DrägerService or if it has been used in a manner not conforming to its intended use. Dräger cannot be held responsible for damage caused by non-compliance with the recommendations given above. The warranty and liability provisions of the terms of sale and delivery of Dräger are likewise not modified by the recommendations given above.

Dräger Sicherheitstechnik GmbH

Markings

These Instructions for Use apply for masks with the following type markings:

Panorama Nova – EPDM / PC / RP
Panorama Nova – EPDM / PC / RP / T
Panorama Nova – EPDM / PC / RP / OS
Panorama Nova – EPDM / PC/C / RP / OS
Panorama Nova – SI / PC / RP
Panorama Nova – SI / PC / RP / T

The marking is visible from the outside: Panorama Nova and EPDM or SI on the faceblank. PC or PC/C on the visor. RP and T (telephone) on the facepiece connector.

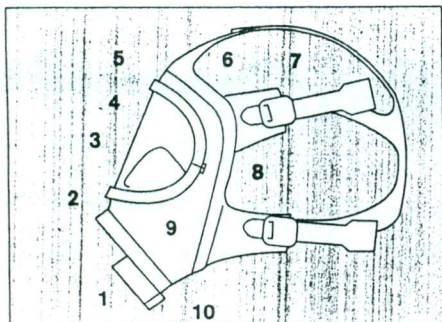
OS: without wiper.

Description / Intended use

The above full face masks are respiratory masks with plug-in connector (quick-release connector) for closed-circuit breathing apparatus. The masks meet the requirements to EN 136 Cl. 3 and bear the CE mark. They protect the face and eyes against corrosive media. Spectacle frames can be fitted for people with glasses. The masks marked "T" include an adapter for connection of the headset R 28 495 which has been tested and approved for use in mines. A simple wiper ensures good visibility. Temperature when used -30 °C to 120 °C. Only use certified respiratory protective devices!

What's what

- 1 Facepiece connector
- 2 Clip
- 3 Inner mask
- 4 Visor
- 5 Clamping frame
- 6 Front strap
- 7 Head straps
- 8 Softbody
- 9 Faceblank
- 10 Button

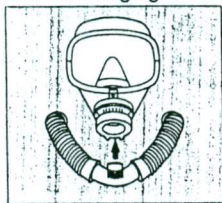


Use

For masks with visor wiper: Soak the wiper with the demisting agent "klar-pilot" fluid¹⁾. It must not be actuated when dry.

Hold the full face mask ready: Undo the straps as far as possible. Hang the neckband (if fitted) round your neck and button it into the front strap.

Put on the closed-circuit breathing apparatus¹⁾ and press the plug-in connector into the facepiece connector until it engages.

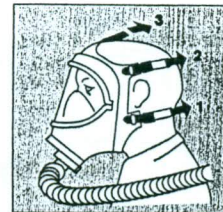


Put on the mask: Unbutton the strap and place chin in recess.

Fit straps round head and pull them back until the front strap rests smoothly on the face.

Position the mask.

- 1 Tighten the neck straps uniformly.
- 2 Tighten the temple straps uniformly.
- 3 Tighten the front strap as well if the head is fairly small.



Beards and sideburns in this area will cause leaks and persons with such facial hair should therefore not use this mask. Spectacle frames in the sealing area will also cause leaks; special spectacle frames for masks should be used.

Check for leaks: Tightly compress both breathing hoses and breathe in until a vacuum is produced. Briefly hold your breath: the vacuum must be maintained. If it is not, the straps must be tightened further. The leak test must be repeated twice. The mask may only be used if perfectly tight!

Wiper: If the visor mists over, it can be cleared by wiping. The wiper is actuated via a lever on the outside of the visor. The wiper must then be returned to its basic position in the middle of the visor.

Headset: Adjust the earphone so that it fits over the ear. Connect the headset to the telephone line via connector or pricker and check the functions "Speaking and hearing".

Extreme operating conditions

At low temperatures: Apply "klar-pilot" anti-misting gel to the inside of the visor to prevent misting¹⁾.

At high temperatures: If the visor is damaged, leave the danger zone immediately.

At alternating high and low temperatures: In the case of visors marked PC/C, the visor coating may come loose in places. After wiping away the blistered particles, you can continue using the mask until the end of the mission. Then replace the visor.

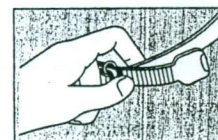
On exposure to chemicals: Certain substances, such as H₂S, and phosgene, may be absorbed and subsequently released by the mask material, especially silicone.

In explosion-hazard areas: Treat the mask with antistatic spray or use a water screen.

After use

Disconnect the closed-circuit breathing apparatus: Press the button and simultaneously draw the plug-in connector out of the facepiece connector.

Remove mask: Slide your index finger under the ends of the neck straps, press the clamps forwards with your thumbs and evenly pull the mask over your head and off your face.



Cleaning: The mask must be cleaned whenever it has been used. Position the wiper in the middle of the visor. Headset: unscrew microphone, remove headphone and earpiece. Only the earpiece (rubber part) may be cleaned and disinfected, all other parts must remain dry.

Do not use solvents, such as acetone, alcohol, etc. to clean rubber and silicone parts. The mask must be thoroughly rinsed in lukewarm water containing a little all-purpose Sekusept Cleaner²⁾ detergent and a cloth. Rinse thoroughly under running water.

Disinfection: The mask must be disinfected whenever it has been used. Immerse the mask in the disinfectant. Only use approved disinfectants, such as Incidur²⁾. High doses and long exposure times can damage the mask! Rinse thoroughly under running water.

Drying: Leave the mask to dry in a drying cabinet R 28 305 or in air. Maximum temperature 60 °C. Keep away from direct sunlight.

Testing

The mask must be tested whenever it has been used, serviced or repaired.

Test equipment and accessories: Testor R 53 400 and adapter R 53 345.

Check for leaks: Note the Instructions for Use of the "Testor". Moisten interior of softbody with water and fit mask on test head; see "Putting on the mask". Inflate the test head until the softbody fits snugly all round. Seal the facepiece connector with the adapter and produce a vacuum of 10 mbar. The mask is deemed to be tight if the pressure changes by no more than 1 mbar after 1 minute. Otherwise, see "Check for leaks underwater"

1) Note the corresponding Instructions for Use.
2) Henkel Hygiene GmbH, D-40554 Düsseldorf, Germany.
Note the corresponding Instructions for Use.

Check for leaks underwater: Remove earphones and microphones if fitted. Immerse test head with mask in water. Produce an excess pressure of approx. 10 mbar and slowly rotate the test head under the water surface. Any leaks are revealed by air bubbles emerging from the test head. Remove the test head and mask from the water, seal any leaks and repeat the test.

After testing: Press the button and remove the adapter. Remove the mask from the test head and dry it if necessary.

Headset: Assemble the microphone, headphone and earpiece; see "Special maintenance work".

Special maintenance work

Assembling the headset:

- 1 Fit earpiece.
- 2 Secure headphone to straps.
- 3 Secure headphone to softbody by means of the clamp.
- 4 Screw in the microphone.

Replacing the visor: Undo the two clamping screws. Prise the clamping frame apart with a screwdriver at the connecting points, then pull it off to the top and bottom. Remove the support if necessary. Detach the old visor from the rubber frame.

Mask with wiper: Remove the wiper from the old visor and fit it onto the new visor.

If approved for use by the fire service: Only use visors marked "F" (fire service). The letter "F" must be at the top. Insert the visor first in the upper and then in the lower part of the rubber frame. The centre marks on the visor should be aligned with the seam on the facepiece. Draw the rubber frame over the edge of the visor on the right and left. Moisten the outside of the rubber frame and the inside of the clamping frame with soap solution. Fit first the upper, then the lower clamping frame. Fit the support if necessary. Screw the bolts into the hex nuts and tighten them until the distance between cams 3 is approx. 0.5 mm.

Replacing the facepiece connector: Draw the inner mask out of the groove in the screw ring.

Prise open the clip with the aid of a screw-driver. Remove the clip, sliding ring and support. Draw the facepiece connector out of the faceblank. Place the speech diaphragm in a new facepiece connector and insert it so that the centre marks on the facepiece connector and faceblank are lined up. Fit the sliding ring and new clip. Engage the hooks so that the clip is as tight as possible.

Slide the support between the clip and sliding ring; attach it to the lower clamping frame and align it. Compress the nose on the clip with pliers R 53 239 until the facepiece connector is securely located in the faceblank. Fit the inner mask.

Replacing the speech diaphragm and O-ring: Draw the inner mask out of the groove in the screw ring.

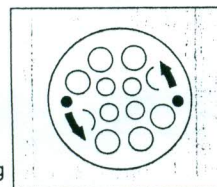
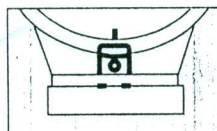
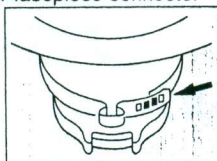
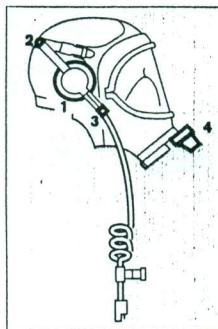
Unscrew the screw ring with socket wrench R 26 817. Turn the socket wrench over and carefully insert it in the holes of the grille, taking care not to damage the foil on the diaphragm. Turn the speech diaphragm to release it and remove it. Remove the O-ring from the connector with seal extractor R 21 519. Check the speech diaphragm and O-ring and replace if necessary.

When assembling the parts: press the edge of the inner mask into the groove in the screw ring and ensure that it engages all round. The centre marks on the facepiece connector and on the inner mask must be lined up.

Only use original Dräger parts. Leakage tests must be repeated after maintenance work and/or after replacing components.

Storage

Loosen the straps as far as possible (handle tab). Wipe visor with anti-static cloth. Pack mask in its bag or box and store it in a dry, dust-free place where it is not deformed. Storage temperature -15 °C to 25 °C. Keep out of direct sunlight and heat.



Maintenance intervals

Part	Work required	After every use	Every 6 months	Annually	Every 2 years	Every 6 years
Mask (complete)	Clean Disinfect Check correct function and absence of leaks	X X X	X ³⁾ X ³⁾ X ¹⁾		X	
Speech diaphragm	Inspect diaphragm and O-ring Replace O-ring	X ⁴⁾		X		X ²⁾
Wiper	Replace seal					X

1) Spot checks only if the masks are packed hermetically.

2) Also applies for spare and replacement parts.

3) Not if the masks are packed hermetically.

4) Only if the mask is used in areas with highly corrosive media, e.g. chlorine, ammonia, etc.

Order list

Designation and description	Order No.
Panorama Nova - EPDM/PC/RP	R 53 306
Panorama Nova - EPDM/PC/RP/OS	R 53 808
Panorama Nova - EPDM/PC/C/RP/OS	R 54 221
Panorama Nova - EPDM/PC/RP/T	R 53 307
Panorama Nova - SI/PC/RP	R 53 316
Panorama Nova - SI/PC/RP/T	R 53 333
Headset	R 28 495
For carrying strap:	
Double button (2 buttons required)	RM 8910
Neckband (black)	R 51 772
Spectacle frame (frame and holder)	R 51 548
Demisting agent "klar-pilot" fluid	R 52 550
Demisting agent "klar-pilot" gel	R 52 560
Transport box (mabox I)	R 53 680
Transport box (mabox II)	R 54 610
Mask box Wikov V	R 51 019