

Compass Freiberg Mirror & Collimator



Features & Benefits

- Facilitates direction and inclination measurements for reconnaissance
- The measurement of minor compass traverses
- Orientation in the terrain
- General field-geological work
- Mirror on the internal surface of the dip measuring plate for observing and reading the magnetic needle and graduated circle for different targets
- Notch and bead sights for nearly horizontal sightings in the terrain
- Collimator sighting arrangement
- For any inclined aiming at terrain spots
- For the direct combination of inclination and direction measurements for topographic sighting
- High pointing accuracy
- Thanks to the collimation principle the sighting is independent of the power of accommodation of the observer's eyes
- Easy to detach if not used
- Ground magnetic needle placed on edge
- Permanent locking of the magnetic system - can be released during measurement by depressing the push-button and should be used for shortening the setting time
- Easy adjustment of the graduated circle
- Lockable inclinometer for inclination measurements of high accuracy
- Colour coding on circle of altitude and magnetic needle (according to Clar) - unambiguous determination of the direction of dip of geological formations
- Circular spirit level for levelling, lateral glass tube for measurement at points of difficult access
- Dip measuring plate
- Reading of dip angle
- Protection for the glass cover

Freiberg Model Comparison Chart

Type/Features	Geologist's Compass	Mirror Compass with Collimator	Geologist's Compass with Mirror
Compass Circle Diameter	45mm		
Compass Scale Value	2° (2gon)		
Compass Estimation	0.5° (0.5gon)		
Azimuth Diameter	22mm		
Azimuth Scale Value	5° (5gon)		
Azimuth Estimation	1° (1gon)		
Clinometer Measuring Range	+90° (+100gon)		
Clinometer Scale Value	2° (2gon)		
Clinometer Estimation	0.5° (0.5gon)		
Contact Edge Graduated Length	70mm		
Contact Edge Scale Value	1mm		
Initial oscillation time of the magnetic needle	<50 sec		
Accuracy of direction reading	+0.5° (+0.5gon)		
Declination optional	Optional		
Tilting range of the dip measuring plate	225° (250gon)		
Circular level	ca. 40'		
Tabular level	ca. 60'		
Collimator	N/A	Yes	N/A
Mirror	N/A	Yes	
Weight	0.280kg		
Dimensions	93 x 76 x 22mm		