

# Freiberger Geologist's Compass

## Technical data

### Compass circle

Diameter	45 mm
scale value	2° (2 gon)
estimation	0,5° (0,5 gon)

### Azimuth circle

diameter	22 mm
scale value	5° (5 gon)
estimation	1° (1 gon)

### Clinometer

measuring range	±90° (±100gon)
scale value	2° (2 gon)
estimation	0,5° (0,5 gon)

### Contact edge

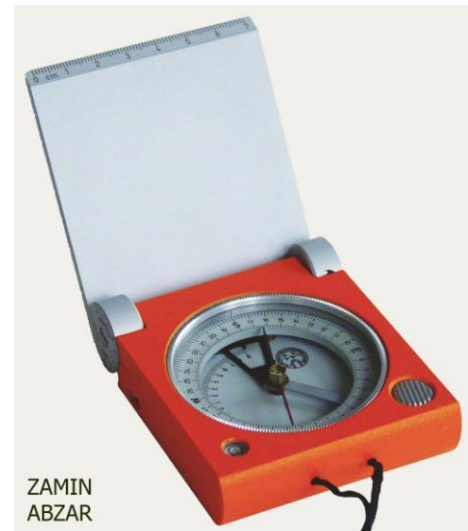
graduated length	70 mm
scale value	1 mm

### Function data

initial oscillation time of the magnetic needle	≤50 sec
accuracy of direction reading	±0,5° (±0,5gon)
declination setting	optional
tilting range of the dip measuring plate	225° (250 gon)
circular level	ca. 40´
tabular level	ca. 60´

### Dimensions

weight instrument	0,280 kg 93 x 76 x 22 mm
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## General field-geological work

- Special structural-geological, deposit-tectonic, and engineering-geological rockmechanical work
- Can be used for route surveying, for the survey of natural and artificial openings above and below ground
- For staking out and dimensioning holes
- For the transfer of geological data into maps and plans
- Rockwork as well as moderate-accuracy surveying
  
- 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 - for each measuring technique and for setting declination values of any magnitude
- 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