

Symbol	Typ	Titel
G	Sektion	PHYSICS
G01	Untersektion	INSTRUMENTS
G01	Klasse	MEASURING (counting G06M); TESTING
G01C	Unterklasse	MEASURING DISTANCES, LEVELS, OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY (measuring dimensions or angles of objects G01B; measuring liquid level G01F; measuring intensity or direction of magnetic fields, other than the earth's field, in general G01R; radio navigation, determining distance or velocity by use of propagation effects, e.g. Doppler effect, propagation time, of radio waves, analogous arrangements using other waves G01S; optical systems therefor G02B; maps, globes G09B)
G01C 1/00	Hauptgruppe	Measuring angles (in compasses G01C 17/00)
G01C 1/02	1-Punkt Untergruppe	. Theodolites
G01C 1/04	2-Punkt Untergruppe	. . combined with cameras
G01C 1/06	2-Punkt Untergruppe	. . Arrangements for reading scales
G01C 1/08	1-Punkt Untergruppe	. Sextants
G01C 1/10	2-Punkt Untergruppe	. . including an artificial horizon (G01C 1/14 takes precedence; artificial horizons per se G01C 15/14)
G01C 1/12	3-Punkt Untergruppe	. . . with a stabilised mirror (tilt compensation in general G12B)
G01C 1/14	2-Punkt Untergruppe	. . Periscopic sextants (periscopes in general G02B 23/08)
G01C 3/00	Hauptgruppe	Measuring distances in line of sight; Optical rangefinders (tapes, chains, or wheels for measuring length G01B; coupling rangefinders with operating parts of photographic apparatus G03B)
G01C 3/02	1-Punkt Untergruppe	. Details
G01C 3/04	2-Punkt Untergruppe	. . Adaptation of rangefinders for combination with telescopes or binoculars (rangefinders coupled with focusing arrangements of cameras G03B 13/20)
G01C 3/06	2-Punkt Untergruppe	. . Use of electric means to obtain final indication
G01C 3/08	3-Punkt Untergruppe	. . . Use of electric radiation detectors
G01C 3/10	1-Punkt Untergruppe	. using a parallactic triangle with variable angles and a base of fixed length in the observation station, e.g. in the instrument
G01C 3/12	2-Punkt Untergruppe	. . with monocular observation at a single point, e.g. coincidence type (G01C 3/20 takes precedence)
G01C 3/14	2-Punkt Untergruppe	. . with binocular observation at a single point, e.g. stereoscopic type (G01C 3/20 takes precedence)
G01C 3/16	3-Punkt Untergruppe	. . . Measuring marks
G01C 3/18	2-Punkt Untergruppe	. . with one observation point at each end of the base (G01C 3/20 takes precedence)
G01C 3/20	2-Punkt Untergruppe	. . with adaptation to the measurement of the height of an object
G01C 3/22	1-Punkt Untergruppe	. using a parallactic triangle with variable angles and a base of fixed length at, near, or formed by, the object
G01C 3/24	1-Punkt Untergruppe	. using a parallactic triangle with fixed angles and a base of variable length in the observation station, e.g. in the instrument
G01C 3/26	1-Punkt Untergruppe	. using a parallactic triangle with fixed angles and a base of variable length at, near, or formed by, the object
G01C 3/28	2-Punkt Untergruppe	. . with provision for reduction of the distance into the horizontal plane

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G01C 3/30	3-Punkt Untergruppe	. . . with adaptation to the measurement of the height of an object, e.g. tacheometers
G01C 3/32	1-Punkt Untergruppe	. by focusing the object, e.g. on a ground glass screen
G01C 5/00	Hauptgruppe	Measuring height; Measuring distances transverse to line of sight; Levelling between separated points; Surveyors' levels (G01C 3/20 , G01C 3/30 take precedence; tracing profiles G01C 7/00; levels indicating inclination at a single point G01C 9/00)
G01C 5/02	1-Punkt Untergruppe	. involving automatic stabilisation of the line of sight (regulation of direction in general G05D 3/00; tilt compensation in general G12B)
G01C 5/04	1-Punkt Untergruppe	. Hydrostatic levelling, i.e. by flexibly interconnected liquid containers at separated points
G01C 5/06	1-Punkt Untergruppe	. by using barometric means (barometers per se G01L)
G01C 7/00	Hauptgruppe	Tracing profiles (by photogrammetry G01C 11/00)
G01C 7/02	1-Punkt Untergruppe	. of land surfaces
G01C 7/04	2-Punkt Untergruppe	. . involving a vehicle which moves along the profile to be traced
G01C 7/06	1-Punkt Untergruppe	. of cavities, e.g. tunnels (survey of wells E21B 47/00)
G01C 9/00	Hauptgruppe	Measuring inclination, e.g. by clinometers, by levels
G01C 9/02	1-Punkt Untergruppe	. Details
G01C 9/04	2-Punkt Untergruppe	. . Transmission means between sensing element and final indicator for giving an enlarged reading
G01C 9/06	2-Punkt Untergruppe	. . Electric or photoelectric indication or reading means
G01C 9/08	2-Punkt Untergruppe	. . Means for compensating acceleration forces due to movement of instrument
G01C 9/10	1-Punkt Untergruppe	. by using rolling bodies
G01C 9/12	1-Punkt Untergruppe	. by using a single pendulum (plumb lines G01C 15/10)
G01C 9/14	2-Punkt Untergruppe	. . movable in more than one direction
G01C 9/16	1-Punkt Untergruppe	. by using more than one pendulum
G01C 9/18	1-Punkt Untergruppe	. by using liquids
G01C 9/20	2-Punkt Untergruppe	. . the indication being based on the inclination of the surface of a liquid relative to its container
G01C 9/22	3-Punkt Untergruppe	. . . with interconnected containers in fixed relation to each other
G01C 9/24	2-Punkt Untergruppe	. . in closed containers partially filled with liquid so as to leave a gas bubble
G01C 9/26	3-Punkt Untergruppe	. . . Details
G01C 9/28	4-Punkt Untergruppe	 Mountings
G01C 9/30	4-Punkt Untergruppe	 Means for adjusting dimensions of bubble
G01C 9/32	4-Punkt Untergruppe	 Means for facilitating the observation of the position of the bubble, e.g. illuminating means
G01C 9/34	3-Punkt Untergruppe	. . . of the tubular type, i.e. for indicating the level in one direction only
G01C 9/36	3-Punkt Untergruppe	. . . of the spherical type, i.e. for indicating the level in all directions
G01C 11/00	Hauptgruppe	Photogrammetry; Photographic surveying (cameras combined with surveying instruments, e.g. with theodolite, G01C 1/00 , G01C 3/00 , G01C 5/00 , G01C 9/00; surveying cameras G03B 37/00)
G01C 11/02	1-Punkt Untergruppe	. Picture-taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures

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G01C 11/04	1-Punkt Untergruppe	. Interpretation of pictures
G01C 11/06	2-Punkt Untergruppe	. . by comparison of two or more pictures of the same area
G01C 11/08	3-Punkt Untergruppe	. . . the pictures not being supported in the same relative position as when they were taken
G01C 11/10	4-Punkt Untergruppe	 using computers to control the position of the pictures (computers per se G06)
G01C 11/12	3-Punkt Untergruppe	. . . the pictures being supported in the same relative position as when they were taken
G01C 11/14	4-Punkt Untergruppe	 with optical projection (G01C 11/26 takes precedence)
G01C 11/16	5-Punkt Untergruppe	 in a common plane
G01C 11/18	6-Punkt Untergruppe	 involving scanning means
G01C 11/20	5-Punkt Untergruppe	 in separate planes
G01C 11/22	4-Punkt Untergruppe	 with mechanical projection (G01C 11/26 takes precedence)
G01C 11/24	4-Punkt Untergruppe	 with optical-mechanical projection (G01C 11/26 takes precedence)
G01C 11/26	4-Punkt Untergruppe	 using computers to control the position of the pictures (computers per se G06)
G01C 11/28	3-Punkt Untergruppe	. . . Special adaptation for recording picture point data, e.g. for profiles
G01C 11/30	2-Punkt Untergruppe	. . by triangulation
G01C 11/32	3-Punkt Untergruppe	. . . Radial triangulation
G01C 11/34	3-Punkt Untergruppe	. . . Aerial triangulation
G01C 13/00	Hauptgruppe	Surveying specially adapted to open water, e.g. sea, lake, river, canal (liquid level metering G01F; measuring liquid velocity G01P; determining existence or flow of underground water G01V)
G01C 15/00	Hauptgruppe	Surveying instruments or accessories not provided for in groups G01C 1/00 to G01C 13/00
G01C 15/02	1-Punkt Untergruppe	. Means for marking measuring points
G01C 15/04	2-Punkt Untergruppe	. . Permanent marks; Boundary markers
G01C 15/06	2-Punkt Untergruppe	. . Surveyors' staffs; Movable markers
G01C 15/08	3-Punkt Untergruppe	. . . Plumbing or registering staffs or markers over ground marks
G01C 15/10	1-Punkt Untergruppe	. Plumb lines
G01C 15/12	1-Punkt Untergruppe	. Instruments for setting out fixed angles, e.g. right angles
G01C 15/14	1-Punkt Untergruppe	. Artificial horizons (tilt compensation in general G12B 5/00)
G01C 17/00	Hauptgruppe	Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00; for geophysical or prospecting purposes G01V 3/00)
G01C 17/02	1-Punkt Untergruppe	. Magnetic compasses
G01C 17/04	2-Punkt Untergruppe	. . with north-seeking magnetic elements, e.g. needles
G01C 17/06	3-Punkt Untergruppe	. . . Suspending magnetic elements
G01C 17/08	4-Punkt Untergruppe	 by flotation
G01C 17/10	3-Punkt Untergruppe	. . . Comparing observed direction with north indication
G01C 17/12	4-Punkt Untergruppe	 by sighting means, e.g. for surveyors' compasses

Symbol	Typ	Titel
G01C 17/14	4-Punkt Untergruppe	 by reference marks, e.g. for ships' compasses
G01C 17/16	4-Punkt Untergruppe	 by clinometers, e.g. for determining dip or strike of geological strata
G01C 17/18	3-Punkt Untergruppe	. . . Supporting or suspending compasses, e.g. by gimbal, by flotation
G01C 17/20	3-Punkt Untergruppe	. . . Observing the compass card or needle
G01C 17/22	4-Punkt Untergruppe	 by projection
G01C 17/24	4-Punkt Untergruppe	 Illumination
G01C 17/26	4-Punkt Untergruppe	 using electric pick-offs for transmission to final indicator, e.g. photocell
G01C 17/28	2-Punkt Untergruppe	. . Electromagnetic compasses (with north-seeking magnetic elements and having electric pick-offs G01C 17/26)
G01C 17/30	3-Punkt Untergruppe	. . . Earth-inductor compasses
G01C 17/32	3-Punkt Untergruppe	. . . Electron compasses
G01C 17/34	1-Punkt Untergruppe	. Sun- or astro-compasses
G01C 17/36	1-Punkt Untergruppe	. Repeaters for remote indication of readings of a master compass
G01C 17/38	1-Punkt Untergruppe	. Testing, calibrating, or compensating of compasses
G01C 19/00	Hauptgruppe	Gyroscopes; Turn-sensitive devices with vibrating masses; Turn-sensitive devices without moving masses
G01C 19/02	1-Punkt Untergruppe	. Rotary gyroscopes
G01C 19/04	2-Punkt Untergruppe	. . Details
G01C 19/06	3-Punkt Untergruppe	. . . Rotors
G01C 19/08	4-Punkt Untergruppe	 electrically driven (G01C 19/14 takes precedence; dynamo-electric machines H02K)
G01C 19/10	5-Punkt Untergruppe	 Power supply
G01C 19/12	4-Punkt Untergruppe	 fluid driven (G01C 19/14 takes precedence)
G01C 19/14	4-Punkt Untergruppe	 Fluid rotors
G01C 19/16	3-Punkt Untergruppe	. . . Suspensions; Bearings (bearings in general F16C; balancing rotors G01M)
G01C 19/18	4-Punkt Untergruppe	 providing movement of rotor with respect to its rotational axes (G01C 19/20 , G01C 19/24 take precedence)
G01C 19/20	4-Punkt Untergruppe	 in fluid
G01C 19/22	4-Punkt Untergruppe	 torsional
G01C 19/24	4-Punkt Untergruppe	 using magnetic or electrostatic fields
G01C 19/26	3-Punkt Untergruppe	. . . Caging, i.e. immobilising moving parts, e.g. for transport (applicable to instruments in general G01D 11/20)
G01C 19/28	3-Punkt Untergruppe	. . . Pick-offs, i.e. devices for taking off an indication of the displacement of the rotor axis
G01C 19/30	3-Punkt Untergruppe	. . . Erection devices, i.e. devices for restoring rotor axis to a desired position (for instrument indicating the vertical G01C 19/46)
G01C 19/32	3-Punkt Untergruppe	. . . Indicating or recording means specially adapted for rotary gyroscopes (in general G01D)

Symbol	Typ	Titel
G01C 19/34	2-Punkt Untergruppe	. . for indicating a direction in the horizontal plane, e.g. directional gyroscopes
G01C 19/36	3-Punkt Untergruppe	. . . with north-seeking action by magnetic means, e.g. gyromagnetic compasses
G01C 19/38	3-Punkt Untergruppe	. . . with north-seeking action by other than magnetic means, e.g. gyrocompasses using earth's rotation
G01C 19/40	2-Punkt Untergruppe	. . for control by signals from a master compass, i.e. repeater compasses
G01C 19/42	2-Punkt Untergruppe	. . for indicating rate of turn; for integrating rate of turn
G01C 19/44	2-Punkt Untergruppe	. . for indicating the vertical
G01C 19/46	3-Punkt Untergruppe	. . . Erection devices for restoring rotor axis to a desired position
G01C 19/48	4-Punkt Untergruppe	 operating by electrical means (G01C 19/54 takes precedence)
G01C 19/50	4-Punkt Untergruppe	 operating by mechanical means (G01C 19/54 takes precedence)
G01C 19/52	4-Punkt Untergruppe	 operating by fluid means (G01C 19/54 takes precedence)
G01C 19/54	4-Punkt Untergruppe	 with correction for acceleration forces due to movement of instrument
G01C 19/56	1-Punkt Untergruppe	. Turn-sensitive devices with vibrating masses, e.g. tuning fork
G01C 19/58	1-Punkt Untergruppe	. Turn-sensitive devices without moving masses [3]
G01C 19/60	2-Punkt Untergruppe	. . Electronic or nuclear magnetic resonance gyrometers (magnetic resonance arrangements in general G01R 33/20) [3, 4]
G01C 19/62	3-Punkt Untergruppe	. . . with optical pumping [3]
G01C 19/64	2-Punkt Untergruppe	. . Gyrometers using the Sagnac effect, i.e. rotation-induced shifts between counter-rotating electromagnetic beams [3]
G01C 19/66	3-Punkt Untergruppe	. . . Ring laser gyrometers (ring lasers in general H01S 3/083) [5]
G01C 19/68	4-Punkt Untergruppe	 Lock-in prevention [5]
G01C 19/70	5-Punkt Untergruppe	 by mechanical means [5]
G01C 19/72	3-Punkt Untergruppe	. . . with counter-rotating light beams in a passive ring, e.g. fibre laser gyrometers [5]
G01C 21/00	Hauptgruppe	Navigation; Navigational instruments not provided for in preceding groups (measuring distance traversed on the ground by a vehicle G01C 22/00; measuring linear or angular speed or acceleration G01P; control of position, course, altitude or attitude of vehicles G05D 1/00; traffic control systems G08G)
<i>G01C 21/02</i>	<i>1-Punkt Untergruppe</i>	<i>. by astronomical means (G01C 21/24 , G01C 21/26 take precedence ; measuring time by using position of the sun, moon, or stars G04B 49/00) [1, 7]</i>
<i>G01C 21/04</i>	<i>1-Punkt Untergruppe</i>	<i>. by terrestrial means (G01C 21/24 , G01C 21/26 take precedence ; marking of navigation route for ships B63B 51/00) [1, 7]</i>
G01C 21/06	2-Punkt Untergruppe	. . involving measuring of drift angle; involving correction for drift
G01C 21/08	2-Punkt Untergruppe	. . involving use of the magnetic field of the earth
<i>G01C 21/10</i>	<i>1-Punkt Untergruppe</i>	<i>. by using measurement of speed or acceleration (G01C 21/24 , G01C 21/26 take precedence) [1, 7]</i>
G01C 21/12	2-Punkt Untergruppe	. . executed aboard the object being navigated; Dead reckoning
G01C 21/14	3-Punkt Untergruppe	. . . by recording the course traversed by the object (G01C 21/16 takes precedence)
G01C 21/16	3-Punkt Untergruppe	. . . by integrating acceleration or speed, i.e. inertial navigation

Symbol	Typ	Titel
G01C 21/18	4-Punkt Untergruppe	 Stabilised platforms, e.g. by gyroscope
<i>G01C 21/20</i>	<i>1-Punkt Untergruppe</i>	<i>. . Instruments for performing navigational calculations (G01C 21/24 , G01C 21/26 take precedence ; adaptations of digital computers to a specific function or application G06F 17/00 , G06F 19/00) [1, 7]</i>
G01C 21/22	2-Punkt Untergruppe	. . Plotting boards (in general B43L)
G01C 21/24	1-Punkt Untergruppe	. specially adapted for cosmonautical navigation
<i>G01C 21/26</i>	<i>1-Punkt Untergruppe</i>	<i>. specially adapted for navigation in a road network [7]</i>
<i>G01C 21/28</i>	<i>2-Punkt Untergruppe</i>	<i>. . with correlation of data from several navigational instruments [7]</i>
<i>G01C 21/30</i>	<i>3-Punkt Untergruppe</i>	<i>. . . Map- or contour-matching [7]</i>
<i>G01C 21/32</i>	<i>4-Punkt Untergruppe</i>	<i>. . . . Structuring or formatting of map data [7]</i>
<i>G01C 21/34</i>	<i>2-Punkt Untergruppe</i>	<i>. . Route searching ; Route guidance [7]</i>
<i>G01C 21/36</i>	<i>3-Punkt Untergruppe</i>	<i>. . . Input/output arrangements for on-board computers [7]</i>
G01C 22/00	Hauptgruppe	Measuring distance traversed on the ground by vehicles, persons, animals, or other moving solid bodies, e.g. using odometers, using pedometers (counting mechanisms per se G06M)
G01C 22/02	1-Punkt Untergruppe	. by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator
G01C 23/00	Hauptgruppe	Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more variables of movement, e.g. distance, speed, acceleration
G01C 25/00	Hauptgruppe	Manufacturing, calibrating, cleaning, or repairing instruments or devices referred to in the preceding groups (testing, calibrating, or compensating compasses G01C 17/38)