

Symbol	Typ	Titel
G	Sektion	SECTION G — PHYSICS
G01	Untersektion	INSTRUMENTS
G01	Klasse	MEASURING (counting G06M); TESTING
G01K	Unterkategorie	MEASURING TEMPERATURE; MEASURING QUANTITY OF HEAT; THERMALLY-SENSITIVE ELEMENTS NOT OTHERWISE PROVIDED FOR (sensing temperature changes for compensating measurements of other variables or for compensating readings of instruments for variations in temperature, <u>see G01D</u> or relevant subclass for variable measured; radiation pyrometry G01J; investigating or analysing materials by use of thermal means G01N 25/00; compound sensitive elements, e.g. bimetallic, G12B 1/02)
G01K 1/00	Hauptgruppe	Details of thermometers not specially adapted for particular types of thermometer (circuits for reducing thermal inertia G01K 7/42) [6]
G01K 1/02	1-Punkt Untergruppe	. Special applications of indicating or recording means, e.g. for remote indications
G01K 1/04	2-Punkt Untergruppe	.. Scales
G01K 1/06	3-Punkt Untergruppe	... Arrangements for facilitating reading, e.g. illumination, magnifying glass
G01K 1/08	1-Punkt Untergruppe	. Protective devices, e.g. casings
G01K 1/10	2-Punkt Untergruppe	.. for preventing chemical attack
G01K 1/12	2-Punkt Untergruppe	.. for preventing damage due to heat overloading
G01K 1/14	1-Punkt Untergruppe	. Supports; Fastening devices; Mounting thermometers in particular locations
G01K 1/16	1-Punkt Untergruppe	. Special arrangements for conducting heat from the object to the sensitive element
G01K 1/18	2-Punkt Untergruppe	.. for reducing thermal inertia
G01K 1/20	1-Punkt Untergruppe	. Compensating for effects of temperature changes other than those to be measured, e.g. changes in ambient temperature
G01K 1/22	2-Punkt Untergruppe	.. by means of fluid contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the fluid
G01K 1/24	2-Punkt Untergruppe	.. by means of compounded strips or plates, e.g. bimetallic strips
G01K 1/26	1-Punkt Untergruppe	. Compensating for effects of pressure changes
G01K 3/00	Hauptgruppe	Thermometers giving results other than momentary value of temperature (G01K 7/42 takes precedence; using thermo-electric elements G01K 7/02) [6]
G01K 3/02	1-Punkt Untergruppe	. giving mean values; giving integrated values
G01K 3/04	2-Punkt Untergruppe	.. in respect of time
G01K 3/06	2-Punkt Untergruppe	.. in respect of space
G01K 3/08	1-Punkt Untergruppe	. giving differences of values; giving differentiated values
G01K 3/10	2-Punkt Untergruppe	.. in respect of time, e.g. reacting only to a quick change of temperature
G01K 3/12	3-Punkt Untergruppe	... based upon expansion or contraction of materials
G01K 3/14	2-Punkt Untergruppe	.. in respect of space
G01K 5/00	Hauptgruppe	Measuring temperature based on the expansion or contraction of a material (G01K 9/00 takes precedence; giving other than momentary value of temperature G01K 3/00; of vapour arising from a liquid G01K 11/02; thermally-actuated switches H01H)

Symbol	Typ	Titel
G01K 5/02	1-Punkt Untergruppe	. the material being a liquid (contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the material G01K 5/32)
G01K 5/04	2-Punkt Untergruppe	... Details
G01K 5/06	3-Punkt Untergruppe	... Arrangements for driving back the liquid column
G01K 5/08	3-Punkt Untergruppe	... Capillary tubes
G01K 5/10	3-Punkt Untergruppe	... Containers for the liquid
G01K 5/12	3-Punkt Untergruppe	... Selection of liquid compositions
G01K 5/14	2-Punkt Untergruppe	... the liquid displacing a further liquid column or a solid body (for maximum or minimum indication G01K 5/20)
G01K 5/16	2-Punkt Untergruppe	... with electric contacts
G01K 5/18	2-Punkt Untergruppe	... with electric conversion means for final indication
G01K 5/20	2-Punkt Untergruppe	... with means for indicating a maximum or a minimum or both (G01K 5/22 takes precedence)
G01K 5/22	2-Punkt Untergruppe	... with provision for expansion indicating over not more than a few degrees, e.g. clinical thermometer
G01K 5/24	2-Punkt Untergruppe	... with provision for measuring the difference between two temperatures
G01K 5/26	2-Punkt Untergruppe	... with provision for adjusting zero point of scale, e.g. Beckmann thermometer
G01K 5/28	1-Punkt Untergruppe	. the material being a gas (contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the material G01K 5/32)
G01K 5/30	2-Punkt Untergruppe	... the gas displacing a liquid column
G01K 5/32	1-Punkt Untergruppe	. the material being a fluid contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the material (under pressure developed by evaporation G01K 11/04; pressure-measuring devices in general G01L)
G01K 5/34	2-Punkt Untergruppe	... the body being a capsule (G01K 5/36, G01K 5/42 take precedence)
G01K 5/36	2-Punkt Untergruppe	... the body being a tubular spring, e.g. Bourdon tube
G01K 5/38	3-Punkt Untergruppe	... of spiral formation
G01K 5/40	3-Punkt Untergruppe	... of helical formation
G01K 5/42	2-Punkt Untergruppe	... the body being a bellows
G01K 5/44	2-Punkt Untergruppe	... the body being a cylinder and piston
G01K 5/46	2-Punkt Untergruppe	... with electric conversion means for final indication
G01K 5/48	1-Punkt Untergruppe	. the material being a solid
G01K 5/50	2-Punkt Untergruppe	... arranged for free expansion or contraction
G01K 5/52	3-Punkt Untergruppe	... with electrical conversion means for final indication
G01K 5/54	2-Punkt Untergruppe	... consisting of pivotally-connected elements
G01K 5/56	2-Punkt Untergruppe	... constrained so that expansion or contraction causes a deformation of the solid
G01K 5/58	3-Punkt Untergruppe	... the solid body being constrained at more than one point, e.g. rod, plate, diaphragm (G01K 5/62 takes precedence)

Symbol	Typ	Titel
G01K 5/60	4-Punkt Untergruppe	.... the body being a flexible wire or ribbon
G01K 5/62	3-Punkt Untergruppe	... the solid body being formed of compounded strips or plates, e.g. bimetallic strip
G01K 5/64	4-Punkt Untergruppe	.... Details of the compound system
G01K 5/66	5-Punkt Untergruppe	..... Selection of composition of the components of the system
G01K 5/68	5-Punkt Untergruppe	..... Shape of the system
G01K 5/70	4-Punkt Untergruppe	.... specially adapted for indicating or recording
G01K 5/72	5-Punkt Untergruppe	..... with electric transmission means for final indication
G01K 7/00	Hauptgruppe	Measuring temperature based on the use of electric or magnetic elements directly sensitive to heat (giving results other than momentary value of temperature G01K 3/00; measuring electric or magnetic variables G01R)
G01K 7/01	1-Punkt Untergruppe	. using semiconducting elements having PN junctions (G01K 7/02, G01K 7/16, G01K 7/30 take precedence) [6]
G01K 7/02	1-Punkt Untergruppe	. using thermo-electric elements, e.g. thermo-couples (thermo-electric or thermo-magnetic devices <u>per se</u> H01L 35/00, H01L 37/00)
G01K 7/04	2-Punkt Untergruppe	.. the object to be measured not forming one of the thermo-electric materials
G01K 7/06	3-Punkt Untergruppe	... the thermo-electric materials being arranged one within the other with the junction at one end exposed to the object, e.g. sheathed type
G01K 7/08	2-Punkt Untergruppe	... the object to be measured forming one of the thermo-electric materials, e.g. pointed type
G01K 7/10	2-Punkt Untergruppe	.. Arrangements for compensating for auxiliary variables, e.g. length of lead
G01K 7/12	3-Punkt Untergruppe	... Arrangements with respect to the cold junction, e.g. preventing influence of temperature of surrounding air
G01K 7/13	4-Punkt Untergruppe	.... Circuits for cold-junction compensation [6]
G01K 7/14	2-Punkt Untergruppe	.. Arrangements for modifying the output characteristic, e.g. linearising
G01K 7/16	1-Punkt Untergruppe	. using resistive elements (resistive elements <u>per se</u> H01C, H01L)
G01K 7/18	2-Punkt Untergruppe	.. the element being a linear resistance, e.g. platinum resistance thermometer (G01K 7/26 takes precedence)
G01K 7/20	3-Punkt Untergruppe	... in a specially-adapted circuit, e.g. bridge circuit
G01K 7/21	4-Punkt Untergruppe	.... for modifying the output characteristic, e.g. linearising [6]
G01K 7/22	2-Punkt Untergruppe	.. the element being a non-linear resistance, e.g. thermistor (G01K 7/26 takes precedence)
G01K 7/24	3-Punkt Untergruppe	... in a specially-adapted circuit, e.g. bridge circuit
G01K 7/25	4-Punkt Untergruppe	.... for modifying the output characteristic, e.g. linearising [6]
G01K 7/26	2-Punkt Untergruppe	.. the element being an electrolyte
G01K 7/28	3-Punkt Untergruppe	... in a specially-adapted circuit, e.g. bridge circuit
G01K 7/30	1-Punkt Untergruppe	. using thermal noise of resistances or conductors
G01K 7/32	1-Punkt Untergruppe	. using change of resonant frequency of a crystal
G01K 7/34	1-Punkt Untergruppe	. using capacitative elements (capacitors <u>per se</u> H01G)

Symbol	Typ	Titel
G01K 7/36	1-Punkt Untergruppe	. using magnetic elements, e.g. magnets, coils (magnetic elements <u>per se</u> H01F)
G01K 7/38	2-Punkt Untergruppe	... the variations of temperature influencing the magnetic permeability
G01K 7/40	1-Punkt Untergruppe	. using ionisation of gases
G01K 7/42	1-Punkt Untergruppe	. Circuits for reducing thermal inertia; Circuits for predicting the stationary value of temperature [6]
G01K 9/00	Hauptgruppe	Measuring temperature based on movements caused by redistribution of weight, e.g. tilting thermometer (not giving momentary value of temperature G01K 3/00)
G01K 11/00	Hauptgruppe	Measuring temperature based on physical or chemical changes not covered by group G01K 3/00, G01K 5/00, G01K 7/00, or G01K 9/00
G01K 11/02	1-Punkt Untergruppe	. using evaporation or sublimation, e.g. by observing boiling
G01K 11/04	2-Punkt Untergruppe	... from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour
G01K 11/06	1-Punkt Untergruppe	. using melting, freezing, or softening
G01K 11/08	2-Punkt Untergruppe	... of disposable test bodies, e.g. cone
G01K 11/10	1-Punkt Untergruppe	. using sintering
G01K 11/12	1-Punkt Untergruppe	. using change of colour or translucency (G01K 11/32 takes precedence; heat-sensitive sheets for use in thermography B41M 5/00) [6]
G01K 11/14	2-Punkt Untergruppe	... of inorganic materials
G01K 11/16	2-Punkt Untergruppe	... of organic materials
G01K 11/18	2-Punkt Untergruppe	... of materials which change translucency
G01K 11/20	1-Punkt Untergruppe	. using thermoluminescent materials (G01K 11/32 takes precedence) [6]
G01K 11/22	1-Punkt Untergruppe	. using measurement of acoustic effects
G01K 11/24	2-Punkt Untergruppe	... of the velocity of propagation of sound
G01K 11/26	2-Punkt Untergruppe	... of resonant frequencies
G01K 11/28	1-Punkt Untergruppe	. using measurements of density (measuring density in general G01N)
G01K 11/30	1-Punkt Untergruppe	. using measurement of the effect of a material on X-radiation, gamma radiation or particle radiation [5]
G01K 11/32	1-Punkt Untergruppe	. using changes in transmission, scattering or fluorescence in optical fibres [6]
G01K 13/00	Hauptgruppe	Adaptations of thermometers for specific purposes
G01K 13/02	1-Punkt Untergruppe	. for measuring temperature of moving fluids or granular materials capable of flow
G01K 13/04	1-Punkt Untergruppe	. for measuring temperature of moving solid bodies
G01K 13/06	2-Punkt Untergruppe	... in linear movement
G01K 13/08	2-Punkt Untergruppe	... in rotary movement
G01K 13/10	1-Punkt Untergruppe	. for measuring temperature within piled or stacked materials (by special arrangements for conducting heat from the object to the sensitive element G01K 1/16)
G01K 13/12	1-Punkt Untergruppe	. combined with sampling devices for measuring temperatures of samples of material
G01K 15/00	Hauptgruppe	Testing or calibrating of thermometers
G01K 17/00	Hauptgruppe	Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00-G01K 11/00;

Symbol	Typ	Titel
specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion, G01N)		
G01K 17/02	1-Punkt Untergruppe	. Calorimeters using transport of an indicating substance, e.g. evaporation calorimeters
G01K 17/04	1-Punkt Untergruppe	. Calorimeters using compensation methods
G01K 17/06	1-Punkt Untergruppe	. Measuring quantity of heat conveyed by flowing media, e.g. in heating systems (G01K 17/02, G01K 17/04 take precedence)
G01K 17/08	2-Punkt Untergruppe	.. based upon measurement of temperature difference
G01K 17/10	3-Punkt Untergruppe	... between an inlet and an outlet point, combined with measurement of rate of flow of the medium
G01K 17/12	4-Punkt Untergruppe	.... Indicating product of flow and temperature difference directly
G01K 17/14	5-Punkt Untergruppe	..... using mechanical means for both measurements
G01K 17/16	5-Punkt Untergruppe	..... using electrical means for both measurements
G01K 17/18	5-Punkt Untergruppe	..... using electrical means for one measurement and mechanical means for the other
G01K 17/20	3-Punkt Untergruppe	... across a radiating surface, combined with ascertainment of the heat-transmission coefficient
G01K 19/00	Hauptgruppe	Testing or calibrating calorimeters