Symbol	Typ	Titel
G	**Sektion**	**SECTION G — PHYSICS**
G01	**Untersektion**	**INSTRUMENTS**
G01	**Klasse**	**MEASURING (counting G06M); TESTING**
G01K	**Unterklasse**	**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, seeG01D 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 per se 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 per seH01C, 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 per seH01G)

Symbol	Typ	Titel
G01K 7/36	1-Punkt Untergruppe	. using magnetic elements, e.g. magnets, coils (magnetic elements per seH01F)
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**