

G01W

METEOROLOGY (influencing weather conditions [A01G 15/00](#); dispersing fog [E01H 13/00](#); instruments for measuring single variable in general, see the appropriate subclass of [G01](#), e.g. [G01K](#), [G01L](#); obtaining meteorological information by radar [G01S 13/95](#))

Definition statement

This place covers:

Measurement of certain ambient atmospheric conditions.

Adaptations of balloons, missiles, or aircrafts for meteorological purposes.

Radiosondes.

Devices for predicting weather conditions.

Weather houses or similar ornamental devices for indicating humidity.

Sunshine-duration recorders.

Rainfall or precipitation gauges.

Measuring atmospheric potential differences, e.g. due to electrical charges in clouds.

Catathermometers for measuring "cooling value" related either to weather conditions or to comfort of other human environment.

Testing or calibrating meteorological apparatus.

Relationships with other classification places

Instruments for measuring single physical variables, e.g. temperature, pressure or wind speed, should be classified in the appropriate subclasses of class [G01](#), e.g. [G01K](#), [G01L](#) or [G01P](#) whereas [G01W](#) should be used for the classification of instruments specializing or combining those measurements for the purpose of deducing, indicating or forecasting weather conditions or meteorological information.

References

Limiting references

This place does not cover:

Radar, sonar, lidar or analogous systems, designed for meteorological use	G01S 13/95 , G01S 15/88 , G01S 17/95
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Influencing weather conditions in horticulture, cultivation, forestry or watering	A01G 15/00
Control of watering for watering gardens, fields and sports grounds	A01G 25/16
Heating, cooling or ventilating devices in vehicles	B60H 1/00
Balloons in general	B64B 1/40
De-icing of aircrafts with automatic initiation by icing detector	B64D 15/20

Arrangements of road signs to signal icy roads road or to self-illuminate in fog	E01F 9/40
Dispersing fog in general, e.g. on roads or on airfields	E01H 13/00
Self-propelled or guided missiles for carrying measuring instruments	F42B 15/08
Measuring volume	G01F
Measuring intensity of sunshine	G01J 1/00 , G01J 5/00
Measuring temperature	G01K
Measuring pressure	G01L 7/00- G01L 15/00
Measuring humidity, e.g. hygrometers	G01N , G01N 19/10
Investigating or analysing gaseous mixtures, e.g. polluted air	G01N 33/0004
Measuring speed of fluids, e.g. wind speed	G01P 5/00
Indicating direction of fluid movement, e.g. by weather vane	G01P 13/02
Measuring potential differences	G01R 19/00 , G01R 29/00
File Format Conversion	G06F 16/1794
Geographical information databases	G06F 16/29
Alarms responsive to formation or anticipated formation of ice	G08B 19/02
Alarms responsive to calamitous events, e.g. tornados	G08B 21/10
Transmission systems for measured values	G08C
Systems involving transmission of highway information, e.g. weather	G08G 1/0967
Traffic control systems for aircraft with surveillance aids for monitoring atmospheric conditions	G08G 5/0091
Arrangements in telecontrol or telemetry systems for selectively calling a substation from a main station	H04Q 9/00

Special rules of classification

The following elements are classified in the appropriate subgroup of [G01W](#), and are given the following Indexing Codes as additional information:

Weather detection, monitoring and forecasting for establishing global warming	G01W 2201/00
Real-time site-specific personalized weather information, e.g. nowcasting	G01W 2203/00

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Meteorology	includes measurement of certain ambient atmospheric conditions
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Synonyms and Keywords

In patent documents, the following abbreviations are often used:

CAT	Clear Air Turbulence
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G01W 1/00

Meteorology

Special rules of classification

This group also contains the following elements, in which case the indicated Indexing Code needs to be given as additional information:

Clear air turbulence (CAT) detection and/or forecasting, e.g. for aircrafts	G01W 2001/003
Main server receiving weather information from several sub-stations	G01W 2001/006

G01W 1/02

Instruments for indicating weather conditions by measuring two or more variables, e.g. humidity, pressure, temperature, cloud cover or wind speed ([G01W 1/10](#) takes precedence)

References

Limiting references

This place does not cover:

Devices for predicting weather conditions	G01W 1/10
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G01W 1/06

giving a combined indication of weather conditions (catathermometers for measuring "cooling value" related either to weather conditions or to comfort of other human environment [G01W 1/17](#); computers per se [G06](#))

References

Limiting references

This place does not cover:

Catathermometers for measuring "cooling value" related to either weather conditions or to comfort of other human environment	G01W 1/17
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Computers per se	G06F
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G01W 1/08

Adaptations of balloons, missiles, or aircraft for meteorological purposes; Radiosondes (transmission of measurements [G01D](#); transmitting circuits [H04B](#); {balloons in general [B64B](#); aeroplanes in general [B64D](#); missiles in general [F42B 15/00](#)})

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Self-propelled projectiles or missiles for carrying measuring instruments	F42B 15/08
Transmission systems for measured values	G08C

G01W 1/12

Sunshine duration recorders (measuring intensity of sunshine [G01J](#))

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Solar radiation detection for vehicle heating, cooling or ventilation	B60H 1/0075
Measuring intensity of sunshine	G01J 1/00 , G01J 5/00

G01W 1/14

Rainfall or precipitation gauges (measuring volume in general [G01F](#))

References**Limiting references**

This place does not cover:

Rain sensors for cleaning of vehicles, e.g. window wiper control	B60S 1/0818
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Measuring volume in general	G01F
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G01W 1/16

Measuring atmospheric potential differences, e.g. due to electrical charges in clouds (measuring potentiels in general [G01R](#))

References***Informative references***

Attention is drawn to the following places, which may be of interest for search:

Measuring potential differences in general	G01R 19/00 , G01R 29/00 , G01R 29/0842
Installations of lightning conductors	H02G 13/00

G01W 1/17

Catathermometers for measuring "cooling value" related either to weather conditions or to comfort of other human environment

References***Informative references***

Attention is drawn to the following places, which may be of interest for search:

Electric circuits for transmission of signals between vehicle parts or subsystems concerning the atmospheric environment	B60R 16/0237
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