

## G01W

**METEOROLOGY (radar, sonar, lidar or analogous systems, designed for meteorological use [G01S 13/95](#), [G01S 15/88](#), [G01S 17/95](#))**

### 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	<a href="#">G01S 13/95</a> , <a href="#">G01S 15/88</a> , <a href="#">G01S 17/95</a>
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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	<a href="#">A01G 15/00</a>
Control of watering for watering gardens, fields and sports grounds	<a href="#">A01G 25/16</a>
Heating, cooling or ventilating devices in vehicles	<a href="#">B60H 1/00</a>
Balloons in general	<a href="#">B64B 1/40</a>
De-icing of aircrafts with automatic initiation by icing detector	<a href="#">B64D 15/20</a>
Arrangements of road signs to signal icy roads road or to self-illuminate in fog	<a href="#">E01F 9/40</a>

Dispersing fog in general, e.g. on roads or on airfields	<a href="#">E01H 13/00</a>
Self-propelled or guided missiles for carrying measuring instruments	<a href="#">F42B 15/08</a>
Measuring volume	<a href="#">G01F</a>
Measuring intensity of sunshine	<a href="#">G01J 1/00</a> , <a href="#">G01J 5/00</a>
Measuring temperature	<a href="#">G01K</a>
Measuring pressure	<a href="#">G01L 7/00</a> - <a href="#">G01L 15/00</a>
Measuring humidity, e.g. hygrometers	<a href="#">G01N</a> , <a href="#">G01N 19/10</a>
Investigating or analysing gaseous mixtures, e.g. polluted air	<a href="#">G01N 33/0004</a>
Measuring speed of fluids, e.g. wind speed	<a href="#">G01P 5/00</a>
Indicating direction of fluid movement, e.g. by weather vane	<a href="#">G01P 13/02</a>
Measuring potential differences	<a href="#">G01R 19/00</a> , <a href="#">G01R 29/00</a>
File Format Conversion	<a href="#">G06F 16/1794</a>
Geographical information databases	<a href="#">G06F 16/29</a>
Alarms responsive to formation or anticipated formation of ice	<a href="#">G08B 19/02</a>
Alarms responsive to calamitous events, e.g. tornados	<a href="#">G08B 21/10</a>
Transmission systems for measured values	<a href="#">G08C</a>
Systems involving transmission of highway information, e.g. weather	<a href="#">G08G 1/0967</a>
Traffic control systems for aircraft with surveillance aids for monitoring atmospheric conditions	<a href="#">G08G 5/76</a>
Arrangements in telecontrol or telemetry systems for selectively calling a substation from a main station	<a href="#">H04Q 9/00</a>

### 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	<a href="#">G01W 2201/00</a>
Real-time site-specific personalized weather information, e.g. nowcasting	<a href="#">G01W 2203/00</a>

### 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	<a href="#">G01W 2001/003</a>
Main server receiving weather information from several sub-stations	<a href="#">G01W 2001/006</a>

**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	<a href="#">G01W 1/10</a>
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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	<a href="#">G01W 1/17</a>
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**Informative references**

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

Computers per se	<a href="#">G06F</a>
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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	<a href="#">F42B 15/08</a>
Transmission systems for measured values	<a href="#">G08C</a>

**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	<a href="#">B60H 1/0075</a>
Measuring intensity of sunshine	<a href="#">G01J 1/00</a> , <a href="#">G01J 5/00</a>

**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	<a href="#">B60S 1/0818</a>
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**Informative references**

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

Measuring volume in general	<a href="#">G01F</a>
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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	<a href="#">G01R 19/00</a> , <a href="#">G01R 29/00</a> , <a href="#">G01R 29/0842</a>
Installations of lightning conductors	<a href="#">H02G 13/00</a>

**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	<a href="#">B60R 16/0237</a>
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