Entity: WeatherObserved

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Global description: **An observation of weather conditions at a certain place and time. This data model has been developed in cooperation with mobile operators and the GSMA.**

version: 0.3.3

List of properties

[*] If there is not a type in an attribute is because it could have several types or different formats/patterns
-

```
address[object]
```

: The mailing address . Model: https://schema.org/address
-

```
addressCountry[string]
```

: The country. For example, Spain . Model: https://schema.org/addressCountry
-

```
addressLocality[string]
```

: The locality in which the street address is, and which is in the region . Model: https://schema.org/addressLocality
-

```
addressRegion[string]
```

: The region in which the locality is, and which is in the country . Model: https://schema.org/addressRegion
-

```
district[string]
```

: A district is a type of administrative division that, in some countries, is managed by the local government
-

```
postOfficeBoxNumber[string]
```

: The post office box number for PO box addresses. For example, 03578 . Model: https://schema.org/postOfficeBoxNumber
-

```
postalCode[string]
```

: The postal code. For example, 24004 . Model: https://schema.org/https://schema.org/postalCode
-

```
streetAddress[string]
```

: The street address . Model: https://schema.org/streetAddress
-

```
streetNr[string]
```

: Number identifying a specific property on a public street
-

```
airQualityIndex[number]
```

: Air quality index is a number used to report the quality of the air on any given day . Model: https://schema.org/Number
-

```
airQualityIndexForecast[number]
```

: Forecasted overall Air Quality Index (AQI) over a certain duration in future . Model: https://schema.org/Number
-

```
airTemperatureForecast[number]
```

: Forecasted value of air temperature over a certain duration in future . Model: https://schema.org/Number
-

```
airTemperatureTSA[object]
```

: Air temperature time series aggregation
-

```
averageValue[number]
```

: Average value of temporal processing over time
-

```
instValue[number]
```

: Instant value of temporal processing
-

```
maxOverTime[number]
```

: Maximum value of temporal processing over time
-

```
minOverTime[number]
```

: Minimum value of temporal processing over time
-

```
alternateName[string]
```

: An alternative name for this item
-

```
aqiMajorPollutant[string]
```

: Major pollutant in the Air Quality Index (AQI) . Model: https://schema.org/Text
-

```
aqiMajorPollutantForecast[string]
```

: Forecasted major air pollutant in the Air Quality Index (AQI) over a certain duration in future . Model: https://schema.org/Text
-

```
areaServed[string]
```

: The geographic area where a service or offered item is provided . Model: https://schema.org/Text
-

```
atmosphericPressure[number]
```

: The atmospheric pressure observed measured in Hecto Pascals . Model: https://schema.org/Number
-

```
dataProvider[string]
```

: A sequence of characters identifying the provider of the harmonised data entity
-

```
dateCreated[date-time]
```

: Entity creation timestamp. This will usually be allocated by the storage platform
-

```
dateModified[date-time]
```

: Timestamp of the last modification of the entity. This will usually be allocated by the storage platform
-

```
dateObserved[date-time]
```

: Date of the observed entity defined by the user
-

```
description[string]
```

: A description of this item
-

```
dewPoint[number]
```

: The dew point encoded as a number. Observed temperature to which air must be cooled to become saturated with water vapor . Model: https://schema.org/Number
-

```
diffuseIrradiation[number]
```

: Diffuse irradiance is the part of the solar irradiance that is scattered by the atmosphere . Model: https://schema.org/Number
-

```
directIrradiation[number]
```

: Direct irradiance is the part of the solar irradiance that directly reaches a surface . Model: https://schema.org/Number
-

```
feelLikesTemperature[number]
```

: Temperature appreciation of the item
-

```
gustSpeed[number]
```

: A sudden burst of high-speed wind over the observed average wind speed lasting only for a few seconds
-

```
id[*]
```

: Unique identifier of the entity
-

```
illuminance[number]
```

: Observed instantaneous ambient light intensity
-

```
location[*]
```

: Geojson reference to the item. It can be Point, LineString, Polygon, MultiPoint, MultiLineString or MultiPolygon
-

```
name[string]
```

: The name of this item
-

```
owner[array]
```

: A List containing a JSON encoded sequence of characters referencing the unique Ids of the owner(s)
-

```
precipitation[number]
```

: Amount of water rain registered. . Model: https://schema.org/Number
-

```
precipitationForecast[number]
```

: Forecasted rainfall over a certain duration in future . Model: https://schema.org/Number
-

```
pressureTendency[*]
```

: Enum:'falling, raising, steady'. Is the pressure rising or falling? It can be expressed in quantitative terms or qualitative terms
-

```
refDevice[*]
```

: A reference to the device(s) which captured this observation . Model: https://schema.org/URL
-

```
refPointOfInterest[string]
```

: Point of interest related to the item . Model: http://schema.org/URL
-

```
relativeHumidity[number]
```

: Humidity in the Air. Observed instantaneous relative humidity (water vapour in air)
-

```
relativeHumidityForecast[number]
```

: Forecasted relative humidity (water vapour in air) over a certain duration in future . Model: https://schema.org/Number
-

```
seeAlso[*]
```

: list of uri pointing to additional resources about the item
-

```
snowHeight[number]
```

: The snow height observed by generic snow depth measurement sensors, expressed in centimeters . Model: https://schema.org/Number
-

```
solarRadiation[number]
```

: The solar radiation observed measured in Watts per square . Model: https://schema.org/Number
-

```
source[string]
```

: A sequence of characters giving the original source of the entity data as a URL. Recommended to be the fully qualified domain name of the source provider, or the URL to the source object
-

```
streamGauge[number]
```

: The water level surface elevation observed by Hydrometric measurement sensors, namely a Stream Gauge expressed in centimeters . Model: https://schema.org/Number
-

```
temperature[number]
```

: Temperature of the item
-

```
type[string]
```

: NGSI Entity type. It has to be WeatherObserved
-

```
uVIndexMax[number]
```

: The maximum UV index for the period, based on the World Health Organization's UV Index measure. http://www.who.int/uv/intersunprogramme/activities/uv_index/en/ the values between 1 and 11 are the valid range for the index. The value 0 is for describing that no signal is detected so no value is stored . Model: https://schema.org/Number
-

```
visibility[*]
```

: Categories of visibility . Model: http://schema.org/Text
-

```
weatherType[string]
```

: Text description of the weather . Model: http://schema.org/Text
-

```
windDirection[number]
```

: Direction of the wind bet . Model: http://schema.org/Number
-

```
windSpeed[number]
```

: Intensity of the wind . Model: http//schema.org/Number

Required properties
-

```
dateObserved
```

-

```
id
```

-

```
location
```

-

```
type
```

Wind direction range defined according to the World Meteorological organization

Data Model description of properties

Sorted alphabetically (click for details)

full yaml details

```yaml
WeatherObserved:
  description: An observation of weather conditions at a certain place and
time. This data model has been developed in cooperation with mobile
operators and the GSMA.
  properties:
    address:
      description: The mailing address
      properties:
        addressCountry:
          description: 'The country. For example, Spain'
          type: string
          x-ngsi:
            model: https://schema.org/addressCountry
            type: Property
        addressLocality:
          description: 'The locality in which the street address is, and
which is in the region'
          type: string
          x-ngsi:
            model: https://schema.org/addressLocality
            type: Property
        addressRegion:
          description: 'The region in which the locality is, and which is
in the country'
          type: string
          x-ngsi:
            model: https://schema.org/addressRegion
            type: Property
        district:
          description: 'A district is a type of administrative division
that, in some countries, is managed by the local government'
          type: string
          x-ngsi:
            type: Property
        postOfficeBoxNumber:
          description: 'The post office box number for PO box addresses.
For example, 03578'
          type: string
          x-ngsi:
            model: https://schema.org/postOfficeBoxNumber
            type: Property
        postalCode:
          description: 'The postal code. For example, 24004'
          type: string
          x-ngsi:
            model: https://schema.org/https://schema.org/postalCode
            type: Property
        streetAddress:
          description: The street address
          type: string
          x-ngsi:
            model: https://schema.org/streetAddress
            type: Property
        streetNr:
          description: Number identifying a specific property on a public
street
          type: string
          x-ngsi:
            type: Property
      type: object
      x-ngsi:
```

```
        model: https://schema.org/address
        type: Property
    airQualityIndex:
      description:
Air quality index is a number used to report the quality of the air on any
given day
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
    airQualityIndexForecast:
      description: Forecasted overall Air Quality Index (AQI) over a
certain duration in future
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
    airTemperatureForecast:
      description: Forecasted value of air temperature over a certain
duration in future
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
    airTemperatureTSA:
      description: Air temperature time series aggregation
      properties:
        averageValue:
          description: Average value of temporal processing over time
          type: number
          x-ngsi:
            type: Property
        instValue:
          description: Instant value of temporal processing
          type: number
          x-ngsi:
            type: Property
        maxOverTime:
          description: Maximum value of temporal processing over time
          type: number
          x-ngsi:
            type: Property
        minOverTime:
          description: Minimum value of temporal processing over time
          type: number
          x-ngsi:
            type: Property
      type: object
      x-ngsi:
        type: Property
    alternateName:
      description: An alternative name for this item
      type: string
      x-ngsi:
        type: Property
    aqiMajorPollutant:
      description: Major pollutant in the Air Quality Index (AQI)
      type: string
      x-ngsi:
        model: https://schema.org/Text
        type: Property
    aqiMajorPollutantForecast:
      description: Forecasted major air pollutant in the Air Quality Index
(AQI) over a certain duration in future
      type: string
      x-ngsi:
        model: https://schema.org/Text
        type: Property
    areaServed:
      description: The geographic area where a service or offered item is
provided
      type: string
      x-ngsi:
        model: https://schema.org/Text
        type: Property
    atmosphericPressure:
      description: The atmospheric pressure observed measured in Hecto
Pascals
      minimum: 0
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
        units: Hecto pascals
    dataProvider:
      description:
```

```
      A sequence of characters identifying the provider of the harmonised data
    entity
          type: string
          x-ngsi:
            type: Property
        dateCreated:
          description: Entity creation timestamp. This will usually be
    allocated by the storage platform
          format: date-time
          type: string
          x-ngsi:
            type: Property
        dateModified:
          description: Timestamp of the last modification of the entity. This
    will usually be allocated by the storage platform
          format: date-time
          type: string
          x-ngsi:
            type: Property
        dateObserved:
          description: Date of the observed entity defined by the user
          format: date-time
          type: string
          x-ngsi:
            type: Property
        description:
          description: A description of this item
          type: string
          x-ngsi:
            type: Property
        dewPoint:
          description: The dew point encoded as a number. Observed temperature
    to which air must be cooled to become saturated with water vapor
          type: number
          x-ngsi:
            model: https://schema.org/Number
            type: Property
            units: Celsius degrees
        diffuseIrradiation:
          description: Diffuse irradiance is the part of the solar irradiance
    that is scattered by the atmosphere
          minimum: 0
          type: number
          x-ngsi:
            model: https://schema.org/Number
            type: Property
            units: w/m2
        directIrradiation:
          description: Direct irradiance is the part of the solar irradiance
    that directly reaches a surface
          minimum: 0
          type: number
          x-ngsi:
            model: https://schema.org/Number
            type: Property
            units: w/m2
        feelsLikeTemperature:
          description: Temperature appreciation of the item
          type: number
          x-ngsi:
            type: Property
        gustSpeed:
          description: A sudden burst of high-speed wind over the observed
    average wind speed lasting only for a few seconds
          type: number
          x-ngsi:
            type: Property
        id:
          anyOf:
            - description: Identifier format of any NGSI entity
              maxLength: 256
              minLength: 1
              pattern: ^[\w\-\.\{\}\$\+\*\[\]`|~^@!,:\\]+$
              type: string
              x-ngsi:
                type: Property
            - description: Identifier format of any NGSI entity
              format: uri
              type: string
              x-ngsi:
                type: Property
          description: Unique identifier of the entity
          x-ngsi:
            type: Property
        illuminance:
          description: '(https://en.wikipedia.org/wiki/Illuminance) observed
```

```
measured in lux (lx) or lumens per square metre (cd·sr·m−2)'
      minimum: 0
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
        units: Lux
    location:
      description: 'Geojson reference to the item. It can be Point,
LineString, Polygon, MultiPoint, MultiLineString or MultiPolygon'
      oneOf:
        - description: Geojson reference to the item. Point
          properties:
            bbox:
              items:
                type: number
              minItems: 4
              type: array
            coordinates:
              items:
                type: number
              minItems: 2
              type: array
            type:
              enum:
                - Point
              type: string
          required:
            - type
            - coordinates
          title: GeoJSON Point
          type: object
          x-ngsi:
            type: GeoProperty
        - description: Geojson reference to the item. LineString
          properties:
            bbox:
              items:
                type: number
              minItems: 4
              type: array
            coordinates:
              items:
                items:
                  type: number
                minItems: 2
                type: array
              minItems: 2
              type: array
            type:
              enum:
                - LineString
              type: string
          required:
            - type
            - coordinates
          title: GeoJSON LineString
          type: object
          x-ngsi:
            type: GeoProperty
        - description: Geojson reference to the item. Polygon
          properties:
            bbox:
              items:
                type: number
              minItems: 4
              type: array
            coordinates:
              items:
                items:
                  items:
                    type: number
                  minItems: 2
                  type: array
                minItems: 4
                type: array
              type: array
            type:
              enum:
                - Polygon
              type: string
          required:
            - type
            - coordinates
          title: GeoJSON Polygon
          type: object
```

```
          x-ngsi:
            type: GeoProperty
        - description: Geojson reference to the item. MultiPoint
          properties:
            bbox:
              items:
                type: number
              minItems: 4
              type: array
            coordinates:
              items:
                items:
                  type: number
                minItems: 2
                type: array
              type: array
            type:
              enum:
                - MultiPoint
              type: string
          required:
            - type
            - coordinates
          title: GeoJSON MultiPoint
          type: object
          x-ngsi:
            type: GeoProperty
        - description: Geojson reference to the item. MultiLineString
          properties:
            bbox:
              items:
                type: number
              minItems: 4
              type: array
            coordinates:
              items:
                items:
                  items:
                    type: number
                  minItems: 2
                  type: array
                minItems: 2
                type: array
              type: array
            type:
              enum:
                - MultiLineString
              type: string
          required:
            - type
            - coordinates
          title: GeoJSON MultiLineString
          type: object
          x-ngsi:
            type: GeoProperty
        - description: Geojson reference to the item. MultiLineString
          properties:
            bbox:
              items:
                type: number
              minItems: 4
              type: array
            coordinates:
              items:
                items:
                  items:
                    items:
                      type: number
                    minItems: 2
                    type: array
                  minItems: 4
                  type: array
                type: array
              type: array
            type:
              enum:
                - MultiPolygon
              type: string
          required:
            - type
            - coordinates
          title: GeoJSON MultiPolygon
          type: object
          x-ngsi:
            type: GeoProperty
      x-ngsi:
```

```
        type: GeoProperty
    name:
      description: The name of this item
      type: string
      x-ngsi:
        type: Property
    owner:
      description: A List containing a JSON encoded sequence of characters
referencing the unique Ids of the owner(s)
      items:
        anyOf:
          - description: Identifier format of any NGSI entity
            maxLength: 256
            minLength: 1
            pattern: ^[\w\-\.\{\}\$\+\*\[\]`|~^@!,:\\]+$
            type: string
            x-ngsi:
              type: Property
          - description: Identifier format of any NGSI entity
            format: uri
            type: string
            x-ngsi:
              type: Property
        description: Unique identifier of the entity
        x-ngsi:
          type: Property
      type: array
      x-ngsi:
        type: Property
    precipitation:
      description: 'Amount of water rain registered. '
      minimum: 0
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
        units: Liters per square meter
    precipitationForecast:
      description: Forecasted rainfall over a certain duration in
future
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
    pressureTendency:
      description: 'Enum:''falling, raising, steady''. Is the pressure
rising or falling? It can be expressed in quantitative terms or
qualitative terms'
      oneOf:
        - enum:
            - falling
            - raising
            - steady
          type: string
        - type: number
      x-ngsi:
        type: Property
    refDevice:
      anyOf:
        - description: Identifier format of any NGSI entity
          maxLength: 256
          minLength: 1
          pattern: ^[\w\-\.\{\}\$\+\*\[\]`|~^@!,:\\]+$
          type: string
          x-ngsi:
            type: Property
        - description: Identifier format of any NGSI entity
          format: uri
          type: string
          x-ngsi:
            type: Property
      description: A reference to the device(s) which captured this
observation
      x-ngsi:
        model: https://schema.org/URL
        type: Relationship
    refPointOfInterest:
      description: Point of interest related to the item
      type: string
      x-ngsi:
        model: http://schema.org/URL
        type: Relationship
    relativeHumidity:
      description: Humidity in the Air. Observed instantaneous relative
humidity (water vapour in air)
      maximum: 1
```

```
      minimum: 0
      type: number
      x-ngsi:
        type: Property
    relativeHumidityForecast:
      description: Forecasted relative humidity (water vapour in air) over
a certain duration in future
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
    seeAlso:
      description: list of uri pointing to additional resources about the
item
      oneOf:
        - items:
            format: uri
            type: string
          minItems: 1
          type: array
        - format: uri
          type: string
      x-ngsi:
        type: Property
    snowHeight:
      description: 'The snow height observed by generic snow depth
measurement sensors, expressed in centimeters'
      minimum: 0
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
        units: centimeters
    solarRadiation:
      description: The solar radiation observed measured in Watts per
square
      minimum: 0
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
        units: w/m2
    source:
      description: 'A sequence of characters giving the original source of
the entity data as a URL. Recommended to be the fully qualified domain
name of the source provider, or the URL to the source object'
      type: string
      x-ngsi:
        type: Property
    streamGauge:
      description: 'The water level surface elevation observed by
Hydrometric measurement sensors, namely a [Stream Gauge](https://
en.wikipedia.org/wiki/Stream_gauge) expressed in centimeters'
      minimum: 0
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
        units: centimeters
    temperature:
      description: Temperature of the item
      type: number
      x-ngsi:
        type: Property
    type:
      description: NGSI Entity type. It has to be WeatherObserved
      enum:
        - WeatherObserved
      type: string
      x-ngsi:
        type: Property
    uVIndexMax:
      description: 'The maximum UV index for the period, based on the
World Health Organization''s UV Index measure. [http://www.who.int/uv/
intersunprogramme/activities/uv_index/en/](http://www.who.int/uv/
intersunprogramme/activities/uv_index/en/) the values between 1 and 11 are
the valid range for the index. The value 0 is for describing that no
signal is detected so no value is stored'
      minimum: 0
      type: number
      x-ngsi:
        model: https://schema.org/Number
        type: Property
    visibility:
      anyOf:
        - enum:
```

```
            - veryPoor
            - poor
            - moderate
            - good
            - veryGood
            - excellent
          type: string
        - minimum: 0
          type: number
      description: Categories of visibility
      x-ngsi:
        model: http://schema.org/Text
        type: Property
    weatherType:
      description: Text description of the weather
      type: string
      x-ngsi:
        model: http://schema.org/Text
        type: Property
    windDirection:
      description: Direction of the wind bet
      maximum: 360
      minimum: 0
      type: number
      x-ngsi:
        model: http://schema.org/Number
        type: Property
    windSpeed:
      description: Intensity of the wind
      minimum: 0
      type: number
      x-ngsi:
        model: http//schema.org/Number
        type: Property
  required:
    - id
    - type
    - dateObserved
    - location
  type: object
  x-derived-from: ""
  x-disclaimer: 'Redistribution and use in source and binary forms, with
or without modification, are permitted  provided that the license
conditions are met. Copyleft (c) 2023 Contributors to Smart Data Models
Program'
  x-license-url: https://github.com/smart-data-models/dataModel.Weather/
blob/master/WeatherObserved/LICENSE.md
  x-model-schema: https://smart-data-models.github.io/dataModel.Weather/
WeatherObserved/schema.json
  x-model-tags: IUDX
  x-version: 0.3.4
```

Example payloads

WeatherObserved NGSI-v2 key-values Example

Here is an example of a WeatherObserved in JSON-LD format as key-values. This is compatible with NGSI-v2 when using

```
options=keyValues
```

and returns the context data of an individual entity.

show/hide example

```
{
    "id": "Spain-WeatherObserved-Valladolid-2016-11-30T07:00:00.00Z",
    "type": "WeatherObserved",
    "address": {
        "addressLocality": "Valladolid",
        "addressCountry": "ES"
```

```
    },
    "atmosphericPressure": 938.9,
    "dataProvider": "TEF",
    "dateObserved": "2016-11-30T07:00:00.00Z",
    "location": {
        "type": "Point",
        "coordinates": [
            -4.754444444,
            41.640833333
        ]
    },
    "precipitation": 0,
    "pressureTendency": 0.5,
    "relativeHumidity": 1,
    "source": "http://www.aemet.es",
    "temperature": 3.3,
    "windDirection": 135,
    "windSpeed": 2,
    "illuminance": 1000,
    "refDevice": "device-0A3478",
    "streamGauge": 50,
    "snowHeight": 20,
    "uVIndexMax": 1.0
}
```

WeatherObserved NGSI-v2 normalized Example

Here is an example of a WeatherObserved in JSON-LD format as normalized. This is compatible with NGSI-v2 when not using options and returns the context data of an individual entity.

show/hide example

```
{
    "id": "Valladolid.2016-11-30T07-00-00.00Z",
    "type": "WeatherObserved",
    "dateObserved": {
        "type": "DateTime",
        "value": "2016-11-30T07:00:00.00Z"
    },
    "illuminance": {
        "type": "Number",
        "value": 1000
    },
    "temperature": {
        "type": "Number",
        "value": 3.3
    },
    "precipitation": {
        "type": "Number",
        "value": 0.1
    },
    "atmosphericPressure": {
        "type": "Number",
        "value": 938.9
    },
    "pressureTendency": {
        "type": "Number",
        "value": 0.5
    },
    "refDevice": {
        "type": "Text",
        "value": "device-0A3478"
    },
    "source": {
        "type": "Text",
        "value": "http://www.aemet.es"
    },
    "windSpeed": {
        "type": "Number",
        "value": 2
    },
    "location": {
        "type": "geo:json",
        "value": {
            "type": "Point",
            "coordinates": [
                -4.754444444,
                41.640833333
            ]
        }
```

```
    },
    "address": {
        "type": "StructuredValue",
        "value": {
            "addressLocality": "Valladolid",
            "addressCountry": "ES"
        }
    },
    "dataProvider": {
        "type": "Text",
        "value": "TEF"
    },
    "windDirection": {
        "type": "Number",
        "value": 135
    },
    "relativeHumidity": {
        "type": "Number",
        "value": 0.15
    },
    "streamGauge": {
        "type": "Number",
        "value": 50
    },
    "snowHeight": {
        "type": "Number",
        "value": 20
    },
    "uVIndexMax": {
        "type": "Number",
        "value": 1.0
    }
}
```


WeatherObserved NGSI-LD key-values Example

Here is an example of a WeatherObserved in JSON-LD format as key-values. This is compatible with NGSI-LD when using

```
options=keyValues
```

and returns the context data of an individual entity.

show/hide example


```
{
    "id": "urn:ngsi-ld:WeatherObserved:Spain-WeatherObserved-
Valladolid-2016-11-30T07:00:00.00Z",
    "type": "WeatherObserved",
    "address": {
        "addressLocality": "Valladolid",
        "addressCountry": "ES"
    },
    "atmosphericPressure": 938.9,
    "dataProvider": "TEF",
    "dateObserved": "2016-11-30T07:00:00.00Z",
    "illuminance": 1000,
    "location": {
        "type": "Point",
        "coordinates": [
            -4.754444444,
            41.640833333
        ]
    },
    "precipitation": 0,
    "pressureTendency": 0.5,
    "refDevice": "urn:ngsi-ld:Device:device-0A3478",
    "relativeHumidity": 1,
    "snowHeight": 20,
    "source": "http://www.aemet.es",
    "streamGauge": 50,
    "temperature": 3.3,
    "uVIndexMax": 1.0,
    "windDirection": 135,
    "windSpeed": 2,
    "@context": [
        "https://smart-data-models.github.io/dataModel.Weather/
context.jsonld",
        "https://raw.githubusercontent.com/smart-data-models/
```

```
dataModel.Weather/master/context.jsonld"
    ]
}
```

WeatherObserved NGSI-LD normalized Example

Here is an example of a WeatherObserved in JSON-LD format as normalized. This is compatible with NGSI-LD when not using options and returns the context data of an individual entity.

show/hide example


```
{
    "id": "urn:ngsi-ld:WeatherObserved:Spain-WeatherObserved-
Valladolid-2016-11-30T07:00:00.00Z",
    "type": "WeatherObserved",
    "address": {
        "type": "Property",
        "value": {
            "addressLocality": "Valladolid",
            "addressCountry": "ES"
        }
    },
    "atmosphericPressure": {
        "type": "Property",
        "value": 938.9
    },
    "dataProvider": {
        "type": "Property",
        "value": "TEF"
    },
    "dateObserved": {
        "type": "Property",
        "value": {
            "@type": "DateTime",
            "@value": "2016-11-30T07:00:00.00Z"
        }
    },
    "illuminance": {
        "type": "Property",
        "value": 1000
    },
    "location": {
        "type": "GeoProperty",
        "value": {
            "type": "Point",
            "coordinates": [
                -4.754444444,
                41.640833333
            ]
        }
    },
    "precipitation": {
        "type": "Property",
        "value": 0
    },
    "pressureTendency": {
        "type": "Property",
        "value": 0.5
    },
    "refDevice": {
        "type": "Relationship",
        "object": "urn:ngsi-ld:Device:device-0A3478"
    },
    "relativeHumidity": {
        "type": "Property",
        "value": 1
    },
    "snowHeight": {
        "type": "Property",
        "value": 20
    },
    "source": {
        "type": "Property",
        "value": "http://www.aemet.es"
    },
    "streamGauge": {
        "type": "Property",
        "value": 50
    },
    "temperature": {
```

```
        "type": "Property",
        "value": 3.3
    },
    "uVIndexMax": {
        "type": "Property",
        "value": 1.0
    },
    "windDirection": {
        "type": "Property",
        "value": 135
    },
    "windSpeed": {
        "type": "Property",
        "value": 2
    },
    "@context": [
        "https://raw.githubusercontent.com/smart-data-models/
dataModel.Weather/master/context.jsonld"
    ]
}
```

See FAQ 10 to get an answer on how to deal with magnitude units

---