



Weather Company Data for Advanced Analytics | PWS Observations - Current Conditions - v2

Domain Portfolio: Observations | Domain: Current Conditions | API Name: PWS Observations - Current Conditions - v2

Standard HTTP Cache-Control headers are used to define caching length. The TTL value is provided in the HTTP Header as an absolute time value using the “Expires” parameter. Example: “Expires: Fri, 12 Jul 2013 12:00:00 GMT”. The response provides a data element expire_time_gmt, this should be used to expire and remove a record from your system.

Geography: Global

Attribution Required: NO

Attribution Requirements: N/A

Overview

Personal Weather Station (PWS) Current Conditions returns the current conditions observations for the current record. Current record is the last record reported within 60 minutes. If the station has not reported a current conditions in the past 60 minutes, the response will not return an expired observation record (older than 60 minutes); a 'Data Expired' message will be returned instead.

Unit of Measure Requirement

The unit of measure for the response. The following values are supported:

- e = English units
- m = Metric units
- h = Hybrid units (UK)

URL Construction

Request by Geocode (Latitude & Longitude): Required Parameters: <code>format</code> , <code>units</code> , <code>stationId</code> , <code>apiKey</code> <code>apiKey=yourApiKey</code>
<code>https://api.weather.com/v2/pws/observations/current?stationId=KMAHANOV10&format=json&units=e&apiKey=yourApiKey</code>

Data Elements & Definitions

Note: Field names are sorted alphabetically in the table below for presentation purposes. The table below does not represent the sort order of the API response.

Field Name	Description	Type	Range	Sample	Nulls Allowed
country	Country Code	string		US	Y
epoch	Time in UNIX seconds	epoch		1475157931	Y
humidity	The relative humidity of the air.	long		71	Y
lat	Latitude of PWS	decimal	Any valid latitude value. -90 to 90	32.50828934	Y
lon	Longitude of PWS	decimal	Any valid longitude value. -180 to 180	-110.8763962	Y
neighborhood	Neighborhood associated with the PWS location	string		WOW Arizona!	Y
obsTimeLocal	Time observation is valid in local apparent time by timezone - tz	ISO	YYYYY-MM-dd HH:mm:ss	2016-09-29 14:05:31	Y
obsTimeUtc	GMT(UTC) time	ISO	ISO 8601 - yyyy-MM-dd'T'HH:mm:ssZZ	2016-09-29T14:05:31Z	Y
realtimeFrequency	Frequency of data report updates in minutes	decimal		5	Y
softwareType	Software type of the PWS	string		WS-1001 V2.2.9	Y
solarRadiation	Solar Radiation	decimal		91.96	Y
stationID	ID as registered by wunderground.com	string		KAZTUCSO539	N

uv	UV reading of the intensity of solar radiation	decimal		1	Y
winddir	Wind Direction	long		52	Y
imperial metric metric_si uk_hybrid	Object containing fields that use a defined unit of measure. The object label is dependent on the units parameter assigned in the request. "imperial", "metric", "metric_si", "uk_hybrid"	object		imperial: {.....}	N
dewpt	The temperature which air must be cooled at constant pressure to reach saturation. The Dew Point is also an indirect measure of the humidity of the air. The Dew Point will never exceed the Temperature. When the Dew Point and Temperature are equal, clouds or fog will typically form. The closer the values of Temperature and Dew Point, the higher the relative humidity.	decimal	-80 to 100 (°F) or -62 to 37 (°C)	58	Y
elev	Elevation	long		3094	Y
heatIndex	Heat Index - An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of warm temperatures and high humidity. When the temperature is 70°F or higher, the Feels Like value represents the computed Heat Index.	long		67	Y
precipRate	Rate of precipitation - instantaneous precipitation rate. How much rain would fall if the precipitation intensity did not change for one hour	decimal		0.03	Y
precipTotal	Accumulated precipitation for today	decimal		0.03	Y
pressure	Mean Sea Level Pressure, the equivalent pressure reading at sea level recorded at this station	decimal		30.06	Y
temp	Temperature in defined unit of measure.	long		67	Y
windChill	Wind Chill - An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of the cold temperatures and wind speed. When the temperature is 61°F or lower the Feels Like value represents the computed Wind Chill so display the Wind Chill value.	long		-34	Y
windGust	Wind Gust - sudden and temporary variations of the average Wind Speed. The report always shows the maximum wind gust speed recorded during the observation period. It is a required display field if Wind Speed is shown.	decimal		56	Y
windSpeed	Wind Speed - The wind is treated as a vector; hence, winds must have direction and magnitude (speed). The wind information reported in the hourly current conditions corresponds to a 10-minute average called the sustained wind speed. Sudden or brief variations in the wind speed are known as “wind gusts” and are reported in a separate data field. Wind directions are always expressed as ""from whence the wind blows"" meaning that a North wind blows from North to South. If you face North in a North wind the wind is at your face. Face southward and the North wind is at your back.	decimal		56	Y

JSON Sample

```
{
  "observations": [
    {
      "stationID": "KMAHANOV10",
      "obsTimeUtc": "2016-10-03T11:16:30Z",
      "obsTimeLocal": "2016-10-03 11:16:30",
      "neighborhood": "1505Broadway",
      "softwareType": "Rainwise IP-100",
    }
  ]
}
```

```
"country": "US",
"solarRadiation": null,
"lon": -70.86485291,
"realtimeFrequency": 3,
"epoch": 1475493390,
"lat": 42.09263229,
"uv": null,
"winddir": 90,
"humidity": 100,
"metric": {
  "temp": 13,
  "heatIndex": 13,
  "dewpt": 13,
  "windChill": null,
  "windSpeed": 0,
  "windGust": 0,
  "pressure": 1014.56,
  "precipRate": 1.52,
  "precipTotal": 1.02,
  "elev": 31
}
}
```