



AWEKAS station API

Version: 2.1

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Current data API:

Request:

Table 1

URL:	api.awekas.at/current.php?key=
Protocol:	http or https
Request method	GET
Variable separator	&

Table 2

Variables:	Parameter	Description
key	mandatory	AWEKAS API access key (can be found in user profile)
lng	optional	Language for forecast. Possible values: de = German en = English fr = French es = Spanish nl = Dutch it = Italian pl = Polish

Example:

```
https://api.awekas.at/current.php?key=UwPBC8YStcrI3hFJLqiSE%2BfWABvkjvljdsf668x0eVLcwkVCuq%2BxCD  
eZVyla0q5F%2ByOp9arW4ppQH880g%3D%3D&lng=en
```

Response:

The response will be JSON encoded.

Returned Attributes

Variables:	Description	Datatype	Unit
fetchdate	Unix Timestamp from request	integer	
error	null = no error		
	invalid key = API key is not correct		
	maximum quota exceeded = request quota reached		
	AWEKAS plus not active = AKEKAS plus not activated in user profile		
current	section – current values		
datatimestamp	Unix timestamp UTC from data	integer	
timeoffset	Station time offset to UTC	integer	sec
conditiontimestamp	Unix timestamp from weather condition report	integer	

condition	Weather report condition (see table 4)	integer	
temperature	Outdoor temperature	float	°C
dewpoint	Outdoor dew point	float	°C
windchill	Outdoor windchill temperature	float	°C
wetbulbtemperature	Outdoor wet bulb temperature	float	°C
humidity	Outdoor humidity	integer	%
airpress_rel	Relative air pressure	float	hPa
tendency	Air pressure tendency (see table 5)	integer	
precipitation	Precipitation since midnight station time	float	mm
rainrate	Rain rate	float	mm/h
itsraining	Precipitation indicator (true/false)	bool	
windspeed	Wind Speed	float	km/h
gustspeed	Wind gust speed	float	km/h
winddirection	Wind direction	integer	grad
uv	UV index	float	idx
solar	Solar radiation	float	W/m ²
brightness	Brightness	integer	Lux
suntime	Sun time	float	h
snowheighttimestamp	Unix timestamp from snow report	int	
snowheight	Snow height	float	cm
temp1	Extra (soil) temperature sensor 1	float	°C
temp2	Extra (soil) temperature sensor 2	float	°C
temp3	Extra (soil) temperature sensor 3	float	°C
temp4	Extra (soil) temperature sensor 4	float	°C
humidity1	Extra humidity sensor 1	int	%
humidity2	Extra humidity sensor 2	int	%
humidity3	Extra humidity sensor 3	int	%
humidity4	Extra humidity sensor 4	int	%
soilmoisture1	Soil moisture sensor 1	float	cbar
soilmoisture2	Soil moisture sensor 2	float	cbar
soilmoisture3	Soil moisture sensor 3	float	cbar
soilmoisture4	Soil moisture sensor 4	float	cbar
leafwetness1	Leaf wetness sensor 1	float	
leafwetness2	Leaf wetness sensor 2	float	
indoortemperature	Indoor temperature	float	°C
indoorhumidity	Indoor humidity	integer	%
airquality_pm1	Air quality particulate matter 1.0 µm	float	µg/m ³
airquality_pm2	Air quality particulate matter 2.5 µm	float	µg/m ³
airquality_pm10	Air quality particulate matter 10.0 µm	float	µg/m ³
1h	section – values last hour		
precipitation_1h	Precipitation last hour	float	mm
day	section – statistic day values		
temp_min	Outdoor temperature day minimum	float	°C
temp_min_ts	Timestamp outdoor temperature minimum	integer	
temp_max	Outdoor temperature day maximum	float	°C
temp_max_ts	Timestamp outdoor temperature maximum	integer	
dewpoint_min	Dew point minimum	float	°C
dewpoint_min_ts	Timestamp dew point minimum	integer	
dewpoint_max	Dew point maximum	float	°C
dewpoint_max_ts	Timestamp dew point maximum	integer	
hum_min	Outdoor humidity minimum	integer	%
hum_min_ts	Timestamp outdoor humidity minimum	integer	
hum_max	Outdoor humidity maximum	integer	%

hum_max_ts	Timestamp outdoor humidity	integer	
airp_rel_min	Relative air pressure minimum	float	hPa
airp_rel_min_ts	Timestamp minimum relative air pressure	integer	
airp_rel_max	relative air pressure maximum	float	hPa
airp_rel_max_ts	Timestamp maximum relative air pressure	integer	
windspeed_min	Wind speed minimum	float	km/h
windspeed_min_ts	Timestamp minimum wind speed	integer	
windspeed_max	Wind speed maximum	float	km/h
windspeed_max_ts	Timestamp maximum wind speed	integer	
winddir_max	Wind direction on maximum wind	integer	grad
gustspeed_min	Gust speed minimum	float	km/h
gustspeed_min_ts	Timestamp minimum gust speed	integer	
gustspeed_max	Gust speed maximum	float	km/h
gustspeed_max_ts	Timestamp maximum gust speed	integer	
gustdir_max	Wind direction on maximum gust speed	integer	grad
rainrate_max	Maximum rain rate	float	mm/h
rainrate_max_ts	Timestamp maximum rain rate	integer	
precipitation_24h	Precipitation last 24 hours	float	mm
brightness_max	Brightness maximum	integer	lux
brightness_max_ts	Timestamp maximum brightness	integer	
solar_max	Solar radiation maximum	float	W/m ²
solar_max_ts	Timestamp maximum solar radiation	integer	
uv_max	Maximum UV index	float	idx
uv_max_ts	Timestamp maximum UV index	integer	
intemp_min	Indoor temperature minimum	float	°C
intemp_min_ts	Timestamp minimum indoor temperature	integer	
intemp_max	Indoor temperature maximum	float	°C
intemp_max_ts	Timestamp maximum indoor temperature	integer	
inhum_min	Indoor humidity minimum	integer	%
inhum_min_ts	Timestamp minimum indoor humidity	integer	
inhum_max	Indoor humidity maximum	integer	%
inhum_max_ts	Timestamp maximum indoor humidity	integer	
airquality_pm1	24h avg air quality particulate matter 1.0 µm	float	µg/m ³
airquality_pm2	24h avg air quality particulate matter 2.5 µm	float	µg/m ³
airquality_pm10	24h avg air quality particulate matter 10.0 µm	float	µg/m ³
forecast	section – weather forecast (only stations they have AWEKAS Stationsweb active)		
day0 – day5	section day of forecast – day 0 = today , day1 = tomorrow...		
fc_code	Forecast code (*1)	integer	
fc_icon	Forecast icon code (*2)	integer	
fc_text	Forecast text – language can be selected with lng variable (see on top)	varchar(2)	
fc_temp_min	Forecast minimal temperature per day	float	°C
fc_temp_max	Forecast maximal temperature per day	float	°C
fc_rainsum	Amount of precipitation that day	float	mm
fc_rain_possibility	Probability of precipitation that day	integer	%

Note:

Forecast only available if AWEKAS Stationsweb is enabled and has a valid subscription.

(*1) : Forecast Icons can be downloaded at: https://api.awekas.at/awekas_api_forecast_icon.zip

(*2) : Possible Forecast codes and texts can be downloaded at : https://api.awekas.at/forecast_text.csv

Table 4

0	no report
1	clear
2	sunny sky
3	partly cloudy
4	cloudy
5	heavy cloudy
6	overcast sky
7	fog
8	rain showers
9	heavy rain showers
10	light rain
11	rain
12	heavy rain
13	light snow
14	snow
15	light snow showers
16	snow showers
17	sleet
18	hail
19	thunderstorm
20	storm
21	freezing rain
23	drizzle
24	heavy snow
25	heavy snow showers
31	storm > 8 Bft warning
32	heavy rain warning
33	heavy fog warning
34	extreme heat >35°C warning
35	extreme cold <-20°C warning
36	glaze warning
37	heavy snowfall warning
38	snowdrift warning
39	squalls warning
40	hurricane/ tornado > 11 Bft warning
41	constant rain warning
42	flooding warning
43	sleet warning
44	hail warning

Relative air pressure tendency

Table 5

-2	high falling
-1	falling
0	steady
1	rising
2	high rising

Example:

```
{
  {
    "fetchdate": 1671208622,
    "error": null,
    "current": {
      "datatimestamp": 1671208560,
      "timeoffset": 3600,
      "conditiontimestamp": null,
      "condition": 0,
      "temperature": 0,
      "dewpoint": -0.5,
      "windchill": 1.1,
      "wetbulbtemperature": -0.24,
      "humidity": 96,
      "airpress_rel": 1011.8,
      "tendency": 1,
      "precipitation": 0,
      "rainrate": 0,
      "itsraining": false,
      "windspeed": 1.4,
      "gustspeed": 4.7,
      "winddirection": 348,
      "uv": 0,
      "solar": 0,
      "brightness": null,
      "suntime": null,
      "snowheighttimestamp": null,
      "snowheight": null,
      "temp1": 5,
      "temp2": 3.3,
      "temp3": null,
      "temp4": 0.6,
      "humidity1": 95,
      "humidity2": null,
      "humidity3": null,
      "humidity4": null,
      "soilmoisture1": 9,
      "soilmoisture2": null,
      "soilmoisture3": null,
      "soilmoisture4": null,
      "leafwetness1": 15,
      "leafwetness2": null,
      "indoortemperature": 20.9,
      "indoorhumidity": 33,
      "airquality_pm1": 26.3,
      "airquality_pm2": 38.2,
      "airquality_pm10": 43.8
    },
    "1h": {
      "precipitation_1h": null
    },
    "day": {
      "temp_min": -1.3,
      "temp_min_ts": 1671162660,
      "temp_max": 0.2,
      "temp_max_ts": 1671193920,
      "dewpoint_min": -2.8,
      "dewpoint_min_ts": 1671162660,
      "dewpoint_max": -0.5,
      "dewpoint_max_ts": 1671208140,
      "hum_min": 88,
      "hum_min_ts": 1671191880,
      "hum_max": 96,
      "hum_max_ts": 1671199740,
      "airp_rel_min": 1001.1,
      "airp_rel_min_ts": 1671148800,
      "airp_rel_max": 1011.9,
      "airp_rel_max_ts": 1671208440,
      "windspeed_min": 0,
      "windspeed_min_ts": 1671145620,
      "windspeed_max": 7.9,
      "windspeed_max_ts": 1671166080,
      "winddir_max": 118,
      "gustspeed_min": 0,
      "gustspeed_min_ts": 1671159060,
      "gustspeed_max": 16.1,
      "gustspeed_max_ts": 1671165480,
      "gustdir_max": 118,
      "rainrate_max": 0,
      "rainrate_max_ts": 1671145200,
      "precipitation_24h": 0,
      "brightness_max": null,
      "brightness_max_ts": null,
      "solar_max": 7,
      "solar_max_ts": 1671199800,
      "uv_max": 0,
      "uv_max_ts": 1671145200,
      "intemp_min": 18.8,
      "intemp_min_ts": 1671190020,
      "intemp_max": 20.9,
      "intemp_max_ts": 1671145200,
      "inhum_min": 32,
      "inhum_min_ts": 1671145200,
      "inhum_max": 34,
      "inhum_max_ts": 1671192540,
      "airquality_pm1": null,
      "airquality_pm2": null,
      "airquality_pm10": null
    }
  }
}
```

```
"forecast": {
  "day0": {
    "fc_code": 1225,
    "fc_icon": 338,
    "fc_text": "starker Schneefall",
    "fc_temp_min": -6.5,
    "fc_temp_max": 1.8,
    "fc_rainsum": 15,
    "fc_rain_possibility": 97
  },
  "day1": {
    "fc_code": 1213,
    "fc_icon": 326,
    "fc_text": "leichter Schneefall",
    "fc_temp_min": -12.9,
    "fc_temp_max": -1.4,
    "fc_rainsum": 6,
    "fc_rain_possibility": 88
  },
  "day2": {
    "fc_code": 1000,
    "fc_icon": 113,
    "fc_text": "Sonnig",
    "fc_temp_min": -13.1,
    "fc_temp_max": 5.6,
    "fc_rainsum": 0,
    "fc_rain_possibility": 0
  },
  "day3": {
    "fc_code": 1003,
    "fc_icon": 116,
    "fc_text": "leicht bewölkt",
    "fc_temp_min": -6.4,
    "fc_temp_max": 7.3,
    "fc_rainsum": 0,
    "fc_rain_possibility": 0
  },
  "day4": {
    "fc_code": 1000,
    "fc_icon": 113,
    "fc_text": "Sonnig",
    "fc_temp_min": -3.3,
    "fc_temp_max": 7.4,
    "fc_rainsum": 0,
    "fc_rain_possibility": 0
  },
  "day5": {
    "fc_code": 1063,
    "fc_icon": 176,
    "fc_text": "zeitweise Regen",
    "fc_temp_min": -3.7,
    "fc_temp_max": 5.6,
    "fc_rainsum": 4,
    "fc_rain_possibility": 62
  }
}
```

Station data API:

Request:

Table 1

URL:	api.awekas.at/station.php?key=
Protocol:	http or https
Request method	GET
Variable separator	&

Table 2

Variables:	Parameter	Description
key	mandatory	AWEKAS API access key (can be found in user profile)

Example:

```
https://api.awekas.at/station.php?key=UwPBC8YStcrI3hFJLqiSE%2BfWABvkvjldsf668x0eVLcwkVCuq%2BxCD
eZVyla0q5F%2ByOp9arW4ppQH880g%3D%3D
```

Response:

The response will be JSON encoded.

Returned Attributes

Variables:	Description	Datatype	Unit
fetchdate	Unix Timestamp from request	integer	
error	null = no error		
	invalid key = API key is not correct		
	maximum quota exceeded = request quota reached		
	AWEKAS plus not active = AKEKAS plus not activated in user profile		
station	section – station data		
id	AWEKAS id	integer	
location	location of the station	varchar(20)	
londec	geographical position longitude of the station	float	grad
latdec	geographical position latitude of the station	float	grad
elevation	Station elevation above mean sea level (AMSL)	integer	m
weblink	Link to personal weather website	varchar(128)	
camlink	Link zu weather webcam picture	varchar(128)	
software	Used weather station software	varchar(50)	
hardware	Used weather station hardware	varchar(40)	
timezone	Timezone (TZ database name)	varchar(40)	
AWEKASplus	AWEKAS plus indicator: 0 = off / 1 = on	tinyint	

stationsweb

Variables:	Description	Datatype	Unit
enabled	indicator: 0 = not active / 1 = active	tinyint	
period	date of expiration of Stationsweb subscription	date	
premium	indicator: 0 = no premium / 1 = premium active	tinyint	
weblink	link to Stationsweb start page	varchar(128)	

sensorstatus

Variables:	Description	Datatype	Unit
temperature	outdoor temp. indicator: 0 = not active / 1 = active	tinyint	

humidity	outdoor humidity indicator: 0 = not active / 1 = active	tinyint	
airpressure	air pressure indicator: 0 = not active / 1 = active	tinyint	
wind	wind sensor indicator: 0 = not active / 1 = active	tinyint	
precipitation	precipitation indicator: 0 = not active / 1 = active	tinyint	
rainrate	rain rate indicator: 0 = not active / 1 = active	tinyint	
solar	solar indicator: 0 = not active / 1 = active	tinyint	
uv	uv sensor indicator: 0 = not active / 1 = active	tinyint	
indoortemperature	indoor temp indicator: 0 = not active / 1 = active	tinyint	
indoorhumidity	indoor humidity indicator: 0 = not active / 1 = active	tinyint	
soiltemp1	soil temp. sensor 1 ind.: 0 = not active / 1 = active	tinyint	
soiltemp2	soil temp. sensor 2 ind.: 0 = not active / 1 = active	tinyint	
soiltemp3	soil temp. sensor 3 ind.: 0 = not active / 1 = active	tinyint	
soiltemp4	soil temp. sensor 4 ind.: 0 = not active / 1 = active	tinyint	
soilmoisture1	soil moisture sensor 1 ind.: 0 = not active / 1 = active	tinyint	
soilmoisture2	soil moisture sensor 2 ind.: 0 = not active / 1 = active	tinyint	
soilmoisture3	soil moisture sensor 3 ind.: 0 = not active / 1 = active	tinyint	
soilmoisture4	soil moisture sensor 4 ind.: 0 = not active / 1 = active	tinyint	
leafwetness1	leaf wetness sensor 1 ind.: 0 = not active / 1 = active	tinyint	
leafwetness2	leaf wetness sensor 2 ind.: 0 = not active / 1 = active	tinyint	
humidity1	extra humidity s. 1 ind.: 0 = not active / 1 = active	tinyint	
humidity2	extra humidity s. 2 ind.: 0 = not active / 1 = active	tinyint	
humidity3	extra humidity s. 3 ind.: 0 = not active / 1 = active	tinyint	
humidity4	extra humidity s. 4 ind.: 0 = not active / 1 = active	tinyint	
airquality	air quality sensor(s) ind.: 0 = not active / 1 = active	tinyint	

Example:

```
{
  "fetchdate": 1596303120,
  "error": null,
  "station":
  {
    "id": 5,
    "location": "Micheldorf Test",
    "country_iso": "AT",
    "londec": 14.133530512089315,
    "latdec": 47.878335611136543,
    "elevation": 480,
    "weblink": "http://stationsweb.awekas.at",
    "camlink": "http://mywebcam.com/webcam.jpg",
    "software": "AWEKAS Bridge Direct Link",
    "hardware": "Davis Vantage Pro 2 (Plus)",
    "timezone": "Europe/Vienna",
    "AWEKASplus": 1
  },
  "stationsweb":
  {
    "enabled": 1,
    "period": "2021-12-31",
    "premium": 1,
    "weblink": "https://stationsweb.awekas.at/index.php?id=5"
  },
  "sensorstatus":
  {
    "temperature": 1,
    "humidity": 1,
    "airpressure": 1,
    "wind": 1,
    "precipitation": 1,
    "rainrate": 1,
    "solar": 1,
    "uv": 1,
    "indoortemperature": 1,
    "indoorhumidity": 1,
    "soiltemp1": 1,
    "soiltemp2": 1,
    "soiltemp3": 1,
    "soiltemp4": 1,
    "soilmoisture1": 1,
    "soilmoisture2": 1,
    "soilmoisture3": 1,
    "soilmoisture4": 1,
    "leafwetness1": 1,
    "leafwetness2": 1,
    "humidity1": 1,
    "humidity2": 1,
    "humidity3": 1,
    "humidity4": 1,
    "airquality": 1
  }
}
```

Request limits:

- 240 requests per hour.
- 2 requests per second.
- AWEKAS Plus must be activated in the user profile