
weatherlink-live-local-python

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LIBRARY DOCUMENTATION

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Python library to read weather data from a Davis WeatherLink Live station + connected sensors (e.g. Vantage Vue) using the local API.

API specification: <https://weatherlink.github.io/weatherlink-live-local-api/>

weatherlink_live_local

WeatherLink Live Local Python API.

WEATHERLINK_LIVE_LOCAL

WeatherLink Live Local Python API.

Functions

<code>discover([timeout])</code>	Discover all WeatherLink Live services on local network(s).
<code>get_conditions(ip[, port, timeout])</code>	Read conditions from WeatherLink Live device + all connected sensors.
<code>set_units([temperature, pressure, rain, ...])</code>	Set desired units for <code>get_conditions</code> command.

1.1 discover

`weatherlink_live_local.discover(timeout=1)`

Discover all WeatherLink Live services on local network(s).

Parameters `timeout (int)` – Timeout in seconds

Return type `List[ServiceInfo]`

Returns List of found services

1.2 get_conditions

`weatherlink_live_local.get_conditions(ip, port=80, timeout=1)`

Read conditions from WeatherLink Live device + all connected sensors.

Parameters

- **ip (str)** – IP address of WeatherLink Live device. Use `discover` function to find devices with their IP address in the local network.
- **port (int)** – Port number of HTTP interface, should be 80
- **timeout (int)** – Maximum time to listen for WeatherLink Live services

Return type `Conditions`

Returns Conditions of all available sensors

1.3 set_units

`weatherlink_live_local.set_units` (*temperature=None, pressure=None, rain=None, wind_speed=None*)
Set desired units for `get_conditions` command.

Parameters

- **temperature** (Optional[*TemperatureUnit*]) – Temperature unit
- **pressure** (Optional[*PressureUnit*]) – Pressure unit
- **rain** (Optional[*RainUnit*]) – Rain amount unit
- **wind_speed** (Optional[*WindSpeedUnit*]) – Wind speed unit

Example

```
>>> import weatherlink_live_local as wlll
>>> # change only a single unit
>>> wlll.set_units(temperature=wlll.units.TemperatureUnit.CELSIUS)
>>> # change multiple units at once
>>> wlll.set_units(
>>>     pressure=wlll.units.PressureUnit.HECTOPASCAL,
>>>     rain=wlll.units.RainUnit.MILLIMETER,
>>> )
```

Modules

<code>weatherlink_live_local.conditions</code>	Datatypes to gather device-specific sensor data / conditions.
<code>weatherlink_live_local.discovery</code>	Zeroconf-based discovery of WeatherLink Live services/devices in the local network(s).
<code>weatherlink_live_local.units</code>	Units and conversion from default imperial system.

1.4 conditions

Datatypes to gather device-specific sensor data / conditions.

Classes

<code>BarometricConditions</code> (<i>lsid, bar_sea_level, ...</i>)	Barometric conditions of WeatherLink Live station.
<code>Conditions</code> (<i>timestamp, inside, barometric, ...</i>)	Gathered conditions of all available sensors.
<code>InsideConditions</code> (<i>lsid, temp, hum, dew_point, ...</i>)	Inside conditions of WeatherLink Live station.
<code>MoistureTemperatureConditions</code> (<i>txid, ...</i>)	Conditions of leaf & soil moisture/temperature station.
<code>RadioReceptionState</code> (<i>value</i>)	Transmitter radio reception state.
<code>SensorSuiteConditions</code> (<i>txid, rx_state, ...</i>)	Conditions of integrated sensor suite (ISS), e.g.

1.4.1 BarometricConditions

class weatherlink_live_local.conditions.**BarometricConditions** (*lsid, bar_sea_level, bar_trend, bar_absolute*)

Barometric conditions of WeatherLink Live station.

Data structure for *data_structure_type* = 3

__init__ (*lsid, bar_sea_level, bar_trend, bar_absolute*)
Initialize self. See help(type(self)) for accurate signature.

Methods

__init__ (<i>lsid, bar_sea_level, bar_trend, ...</i>)	Initialize self.
from_dict (<i>json_data</i>)	

bar_sea_level: **Optional[[float](#)]**
Most recent bar sensor reading with elevation adjustment [*PressureUnit*]

bar_trend: **Optional[[float](#)]**
Current 3 hour bar trend [*PressureUnit*]

bar_absolute: **Optional[[float](#)]**
Raw bar sensor reading [*PressureUnit*]

1.4.2 Conditions

class weatherlink_live_local.conditions.**Conditions** (*timestamp, inside, barometric, moisture_temperature_stations, integrated_sensor_suites*)

Gathered conditions of all available sensors.

Returned by *get_conditions* function.

__init__ (*timestamp, inside, barometric, moisture_temperature_stations, integrated_sensor_suites*)
Initialize self. See help(type(self)) for accurate signature.

Methods

__init__ (<i>timestamp, inside, barometric, ...</i>)	Initialize self.
---------------------------------------------------------------	------------------

timestamp: **[datetime.datetime](#)**
Timestamp

inside: **[weatherlink_live_local.conditions.InsideConditions](#)**
Inside conditions of WeatherLink Live station

barometric: **[weatherlink_live_local.conditions.BarometricConditions](#)**
Barometric conditions of WeatherLink Live station

moisture_temperature_stations: **List[[weatherlink_live_local.conditions.MoistureTemperatureStation](#)]**
Conditions of leaf & soil moisture/temperature station(s)

integrated_sensor_suites: **List[[weatherlink_live_local.conditions.SensorSuiteCondition](#)]**

Conditions of integrated sensor suite(s), e.g. Vantage Vue

1.4.3 InsideConditions

```
class weatherlink_live_local.conditions.InsideConditions (lsid, temp, hum,  
dew_point, heat_index)
```

Inside conditions of WeatherLink Live station.

Data structure for *data_structure_type* = 4

```
__init__ (lsid, temp, hum, dew_point, heat_index)  
    Initialize self. See help(type(self)) for accurate signature.
```

Methods

```
__init__ (lsid, temp, hum, dew_point, Initialize self.  
heat_index)  
from_dict (json_data)
```

```
temp: Optional[float]  
    Inside temperature [TemperatureUnit]
```

```
hum: Optional[float]  
    Inside humidity [%]
```

```
dew_point: Optional[float]  
    Dew point [TemperatureUnit]
```

```
heat_index: Optional[float]  
    Heat index [TemperatureUnit]
```

1.4.4 MoistureTemperatureConditions

```
class weatherlink_live_local.conditions.MoistureTemperatureConditions (txid,  
rx_state,  
trans_battery_flag,  
lsid,  
temp_1,  
temp_2,  
temp_3,  
temp_4,  
moist_soil_1,  
moist_soil_2,  
moist_soil_3,  
moist_soil_4,  
wet_leaf_1,  
wet_leaf_2)
```

Conditions of leaf & soil moisture/temperature station.

Data structure for *data_structure_type* = 2

```
__init__ (txid, rx_state, trans_battery_flag, lsid, temp_1, temp_2, temp_3, temp_4, moist_soil_1,  
moist_soil_2, moist_soil_3, moist_soil_4, wet_leaf_1, wet_leaf_2)  
    Initialize self. See help(type(self)) for accurate signature.
```

Methods

<code>__init__(txid, rx_state, trans_battery_flag, ...)</code>	Initialize self.
<code>from_dict(json_data)</code>	

`temp_1: Optional[float]`
Temperature slot 1 [*TemperatureUnit*]

`temp_2: Optional[float]`
Temperature slot 2 [*TemperatureUnit*]

`temp_3: Optional[float]`
Temperature slot 3 [*TemperatureUnit*]

`temp_4: Optional[float]`
Temperature slot 4 [*TemperatureUnit*]

`moist_soil_1: Optional[float]`
Moisture soil slot 1 [cb]

`moist_soil_2: Optional[float]`
Moisture soil slot 2 [cb]

`moist_soil_3: Optional[float]`
Moisture soil slot 3 [cb]

`moist_soil_4: Optional[float]`
Moisture soil slot 4 [cb]

`wet_leaf_1: Optional[float]`
Leaf wetness slot 1

`wet_leaf_2: Optional[float]`
Leaf wetness slot 2

1.4.5 RadioReceptionState

`class weatherlink_live_local.conditions.RadioReceptionState (value)`
Transmitter radio reception state.

`__init__()`
Initialize self. See help(type(self)) for accurate signature.

Attributes

<code>SCANNING</code>	Transmitter has not been acquired yet, or we've lost it (more than 15 missed packets in a row)
<code>SYNCED</code>	Transmitter has been acquired, but we have missed 1-14 packets in a row
<code>SYNCED_TRACKING</code>	Transmitter has been acquired and is actively being received

`SYNCED_TRACKING = 0`
Transmitter has been acquired and is actively being received

`SYNCED = 1`

Transmitter has been acquired, but we have missed 1-14 packets in a row

SCANNING = 2

Transmitter has not been acquired yet, or we've lost it (more than 15 missed packets in a row)

1.4.6 SensorSuiteConditions

```
class weatherlink_live_local.conditions.SensorSuiteConditions (txid,      rx_state,
                                                             trans_battery_flag,
                                                             lsid, temp, hum,
                                                             dew_point,
                                                             wet_bulb,
                                                             heat_index,
                                                             wind_chill,
                                                             thw_index,
                                                             thsw_index,
                                                             wind_speed_last,
                                                             wind_speed_avg_last_1_min,
                                                             wind_speed_avg_last_2_min,
                                                             wind_speed_avg_last_10_min,
                                                             wind_speed_hi_last_2_min,
                                                             wind_speed_hi_last_10_min,
                                                             wind_dir_last,
                                                             wind_dir_scalar_avg_last_1_min,
                                                             wind_dir_scalar_avg_last_2_min,
                                                             wind_dir_scalar_avg_last_10_min,
                                                             wind_dir_at_hi_speed_last_2_min,
                                                             wind_dir_at_hi_speed_last_10_min,
                                                             rain-
                                                             fall_last_60_min,
                                                             rain-
                                                             fall_last_24_hr,
                                                             rainfall_daily,
                                                             rainfall_monthly,
                                                             rainfall_year,
                                                             rain_rate_last,
                                                             rain_rate_hi_last_1_min,
                                                             rain_rate_hi_last_15_min,
                                                             rain_storm_last,
                                                             rain_storm_last_start_at,
                                                             rain_storm_last_end_at,
                                                             solar_rad,
                                                             uv_index)
```

Conditions of integrated sensor suite (ISS), e.g. Vantage Vue.

Data structure for *data_structure_type = 1*

```

__init__(txid, rx_state, trans_battery_flag, lsid, temp, hum, dew_point, wet_bulb, heat_index,
         wind_chill, thw_index, thsw_index, wind_speed_last, wind_speed_avg_last_1_min,
         wind_speed_avg_last_2_min, wind_speed_avg_last_10_min, wind_speed_hi_last_2_min,
         wind_speed_hi_last_10_min, wind_dir_last, wind_dir_scalar_avg_last_1_min,
         wind_dir_scalar_avg_last_2_min, wind_dir_scalar_avg_last_10_min,
         wind_dir_at_hi_speed_last_2_min, wind_dir_at_hi_speed_last_10_min, rain-
         fall_last_60_min, rainfall_last_24_hr, rainfall_daily, rainfall_monthly, rainfall_year,
         rain_rate_last, rain_rate_hi_last_1_min, rain_rate_hi_last_15_min, rain_storm_last,
         rain_storm_last_start_at, rain_storm_last_end_at, solar_rad, uv_index)
Initialize self. See help(type(self)) for accurate signature.

```

Methods

<code>__init__(txid, rx_state, trans_battery_flag, ...)</code>	Initialize self.
<code>from_dict(json_data)</code>	

```

temp: Optional[float]
    Temperature [TemperatureUnit]

hum: Optional[float]
    Humidity [%]

dew_point: Optional[float]
    Dew point [TemperatureUnit]

wet_bulb: Optional[float]
    Wet bulb [TemperatureUnit]

heat_index: Optional[float]
    Heat index [TemperatureUnit]

wind_chill: Optional[float]
    Wind chill [TemperatureUnit]

thw_index: Optional[float]
    THW index [TemperatureUnit]

thsw_index: Optional[float]
    THSW index [TemperatureUnit]

wind_speed_last: Optional[float]
    Most recent wind speed [WindSpeedUnit]

wind_speed_avg_last_1_min: Optional[float]
    Average wind speed over last 1 min [WindSpeedUnit]

wind_speed_avg_last_2_min: Optional[float]
    Average wind speed over last 2 min [WindSpeedUnit]

wind_speed_avg_last_10_min: Optional[float]
    Average wind speed over last 10 min [WindSpeedUnit]

wind_speed_hi_last_2_min: Optional[float]
    Maximum wind speed over last 2 min [WindSpeedUnit]

wind_speed_hi_last_10_min: Optional[float]
    Maximum wind speed over last 10 min [WindSpeedUnit]

```

wind_dir_last: `Optional[float]`
Wind direction [°]

wind_dir_scalar_avg_last_1_min: `Optional[float]`
Average wind direction over last 1 min [°]

wind_dir_scalar_avg_last_2_min: `Optional[float]`
Average wind direction over last 2 min [°]

wind_dir_scalar_avg_last_10_min: `Optional[float]`
Average wind direction over last 10 min [°]

wind_dir_at_hi_speed_last_2_min: `Optional[float]`
Gust wind direction over last 2 min [°]

wind_dir_at_hi_speed_last_10_min: `Optional[float]`
Gust wind direction over last 10 min [°]

rainfall_last_60_min: `Optional[float]`
Total rain for last 60 min [*RainUnit*]

rainfall_last_24_hr: `Optional[float]`
Total rain for last 24 hours [*RainUnit*]

rainfall_daily: `Optional[float]`
Total rain since local midnight [*RainUnit*]

rainfall_monthly: `Optional[float]`
Total rain since first of month [*RainUnit*]

rainfall_year: `Optional[float]`
Total rain since first of user-chosen month at local midnight [*RainUnit*]

rain_rate_last: `Optional[float]`
Rain rate [*RainUnit*/hour]

rain_rate_hi_last_1_min: `Optional[float]`
Highest rain rate over last 1 min [*RainUnit*/hour]

rain_rate_hi_last_15_min: `Optional[float]`
Highest rain rate over last 15 min [*RainUnit*/hour]

rain_storm_last: `Optional[float]`
Total rain since last 24 hour long break in rain [*RainUnit*]

rain_storm_last_start_at: `Optional[datetime.datetime]`
Timestamp of last rain storm start

rain_storm_last_end_at: `Optional[datetime.datetime]`
Timestamp of last rain storm start

solar_rad: `Optional[float]`
Solar radiation [W/m²]

uv_index: `Optional[float]`
UV index

1.5 discovery

Zeroconf-based discovery of WeatherLink Live services/devices in the local network(s).

Classes

<i>Discovery</i> ()	Discovery for all WeatherLink Live services on local network(s).
<i>ServiceInfo</i> (name, ip_addresses, port)	WeatherLink Live service information.

1.5.1 Discovery

class weatherlink_live_local.discovery.**Discovery**

Discovery for all WeatherLink Live services on local network(s).

__init__()

Initialize self. See help(type(self)) for accurate signature.

Methods

__init__ ()	Initialize self.
add_service(zc, type_, name)	rtype None
find(timeout)	rtype List[<i>ServiceInfo</i>]
remove_service(zc, type_, name)	rtype None
update_service(zc, type_, name)	rtype None

Attributes

TYPE

1.5.2 ServiceInfo

```
class weatherlink_live_local.discovery.ServiceInfo (name: str, ip_addresses: List[str],  
                                                    port: int)
```

WeatherLink Live service information.

```
__init__ ()  
    Initialize self. See help(type(self)) for accurate signature.
```

Methods

<code><u>__init__</u>()</code>	Initialize self.
<code><u>count</u>(value, /)</code>	Return number of occurrences of value.
<code><u>index</u>(value[, start, stop])</code>	Return first index of value.

Attributes

<code><u>ip_addresses</u></code>	IP address of device, usually only one
<code><u>name</u></code>	Unique name of service
<code><u>port</u></code>	Port number, usually 80

property name

Unique name of service

property ip_addresses

IP address of device, usually only one

property port

Port number, usually 80

count (*value, /*)

Return number of occurrences of value.

index (*value, start=0, stop=9223372036854775807, /*)

Return first index of value.

Raises ValueError if the value is not present.

1.6 units

Units and conversion from default imperial system.

Functions

<code>convert_pressure(inhg)</code>	Convert imperial pressure (inches of mercury) to selected unit.
<code>convert_rain(inch)</code>	Convert imperial rain amount (inch) to selected unit.
<code>convert_temperature(fahrenheit)</code>	Convert imperial temperature (Fahrenheit) to selected unit.
<code>convert_wind_speed(mph)</code>	Convert imperial wind speed (miles per hour) to selected unit.

1.6.1 convert_pressure

`weatherlink_live_local.units.convert_pressure(inhg)`
Convert imperial pressure (inches of mercury) to selected unit.

Return type `Optional[float]`

1.6.2 convert_rain

`weatherlink_live_local.units.convert_rain(inch)`
Convert imperial rain amount (inch) to selected unit.

Return type `Optional[float]`

1.6.3 convert_temperature

`weatherlink_live_local.units.convert_temperature(fahrenheit)`
Convert imperial temperature (Fahrenheit) to selected unit.

Return type `Optional[float]`

1.6.4 convert_wind_speed

`weatherlink_live_local.units.convert_wind_speed(mph)`
Convert imperial wind speed (miles per hour) to selected unit.

Return type `Optional[float]`

Classes

<i>PressureUnit</i> (value)	Pressure unit for barometric sensor values.
<i>RainUnit</i> (value)	Rain quantity unit.
<i>TemperatureUnit</i> (value)	Temperature unit.
<i>WindSpeedUnit</i> (value)	Wind speed unit.

1.6.5 PressureUnit

class weatherlink_live_local.units.**PressureUnit** (value)

Pressure unit for barometric sensor values.

__init__ ()

Initialize self. See help(type(self)) for accurate signature.

Attributes

<i>HECTOPASCAL</i>	Hecto-pascal hPa
<i>INCH_MERCURY</i>	Inches of mercury in Hg

HECTOPASCAL = 1

Hecto-pascal hPa

INCH_MERCURY = 2

Inches of mercury in Hg

1.6.6 RainUnit

class weatherlink_live_local.units.**RainUnit** (value)

Rain quantity unit.

__init__ ()

Initialize self. See help(type(self)) for accurate signature.

Attributes

<i>INCH</i>	Inch
<i>MILLIMETER</i>	Millimeter mm

MILLIMETER = 1

Millimeter mm

INCH = 2

Inch

1.6.7 TemperatureUnit

class weatherlink_live_local.units.**TemperatureUnit** (*value*)
 Temperature unit.

__init__()
 Initialize self. See help(type(self)) for accurate signature.

Attributes

<i>CELSIUS</i>	Degree Celsius °C
<i>FAHRENHEIT</i>	Degree Fahrenheit °F

CELSIUS = 1
 Degree Celsius °C

FAHRENHEIT = 2
 Degree Fahrenheit °F

1.6.8 WindSpeedUnit

class weatherlink_live_local.units.**WindSpeedUnit** (*value*)
 Wind speed unit.

__init__()
 Initialize self. See help(type(self)) for accurate signature.

Attributes

<i>METER_PER_SECOND</i>	Meter per seconds m/s
<i>MILES_PER_HOUR</i>	Miles per hour mi/h

METER_PER_SECOND = 1
 Meter per seconds m/s

MILES_PER_HOUR = 2
 Miles per hour mi/h

CHANGELOG

All notable changes to this project will be documented in this file.

The format is based on [Keep a Changelog](#), and this project adheres to [Semantic Versioning](#).

2.1 Unreleased

2.2 0.2.0 - 2020-12-23

2.2.1 Added

- CI with GitHub Actions

2.2.2 Changed

- Remove imports of `conditions` and `discovery` module in global namespace

2.2.3 Fixed

- Project links in `setup.py`

2.3 0.1.0 - 2020-12-23

Initial public release

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