

Airpointer[®] base unit

Comes in 3 different sizes



2D

can fit 2 analyzers



4D

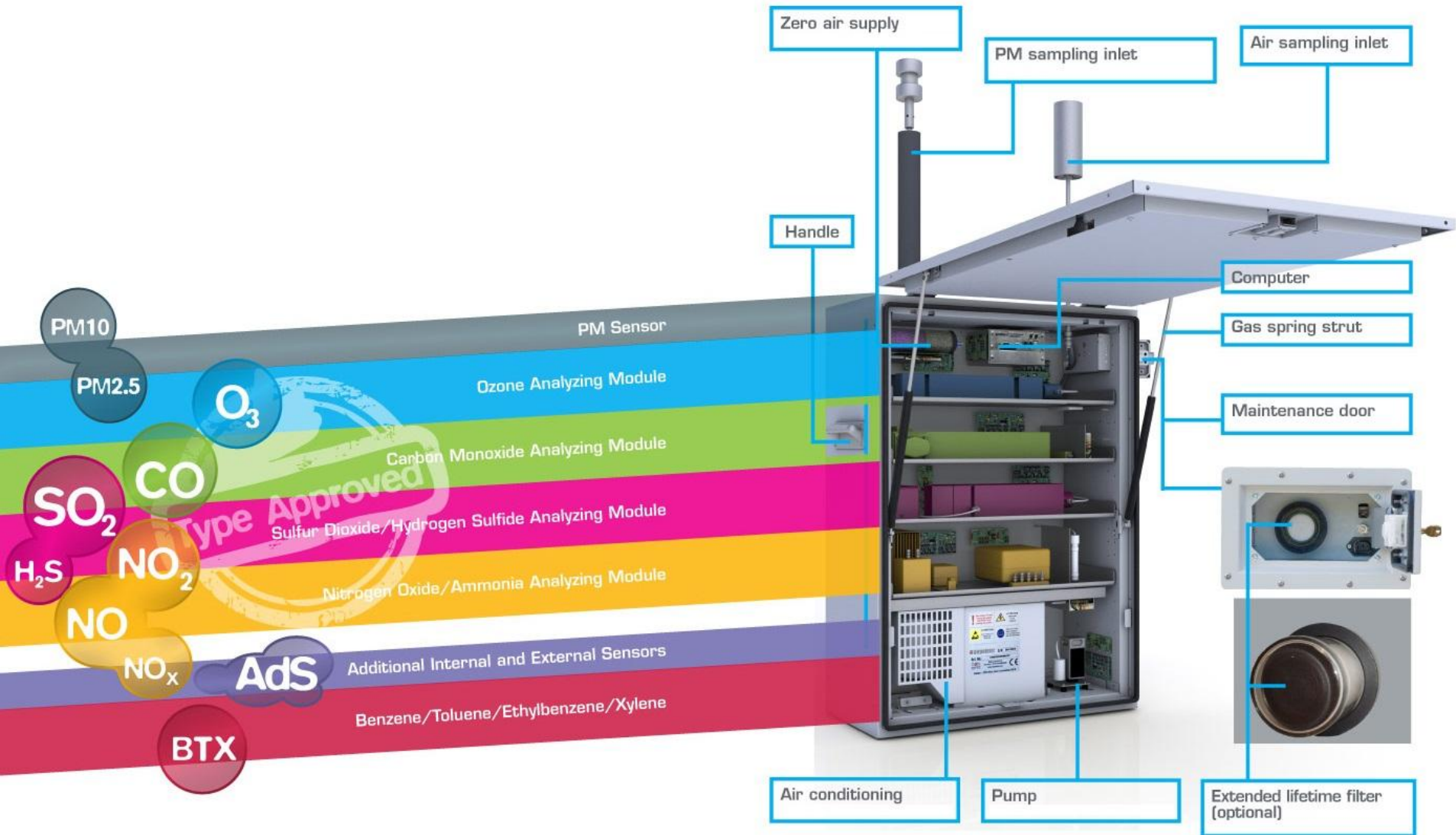
can fit 4 analyzers



HC

can fit up to 6 analyzers

Can measure up to 14 pollutants



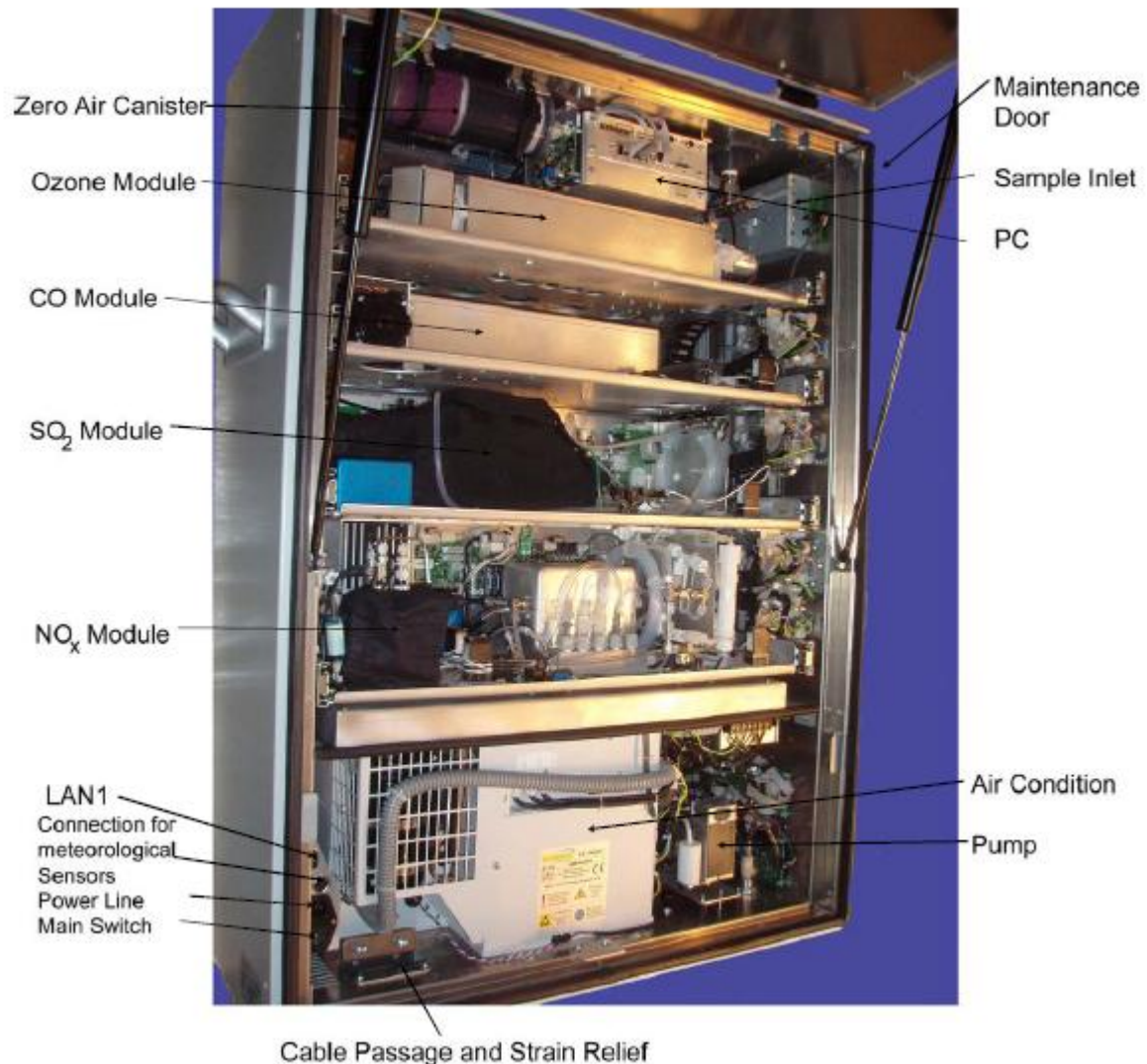
And also...

Optional analyzers:

- NH₃
- VOC¹
- CO₂
- weather station

Optional devices:

- GPS
- Uninterruptible power supply (UPS)
- Heater for temperatures < -40°C
- Extended life sample filter (with water trap)...



1: Volatile Organic Compounds

Type-approved PM

(For HC only)



Grimm EDM180

Teledyne API T640

Fidas 200

Metone BAM1020

NMHC (Non Methanic HydroCarbons)

(For HC only)

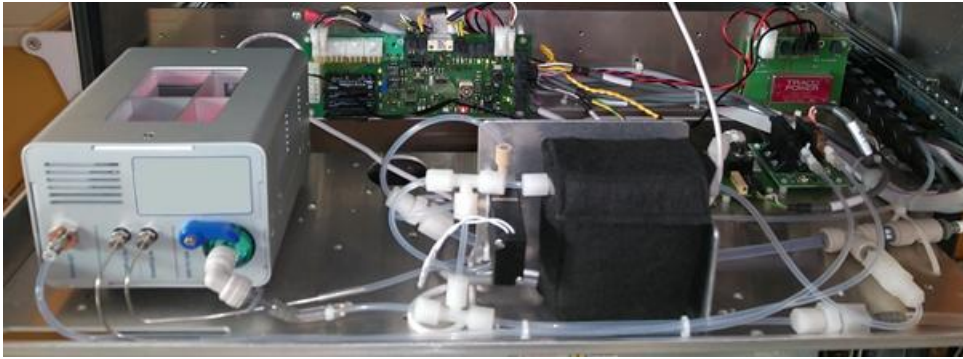
Methane/Non-Methane GC-FID



Air + H₂
generator for the FID



BTEX (Benzene, Toluene, Ethylbenzene, Xylenes)




GC-PID in drawer version (for all Airpointer types)



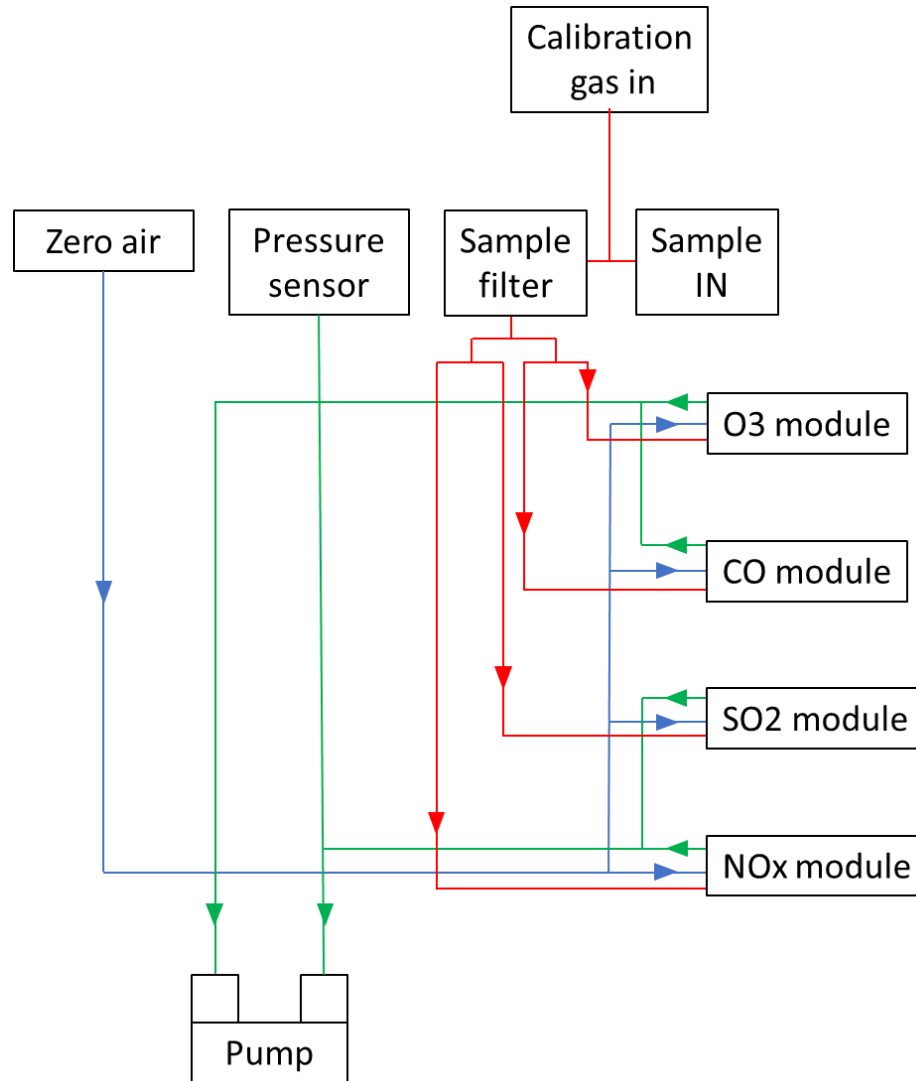
GC-PID in compact version (for HC only)

Choose the housing and the regional settings

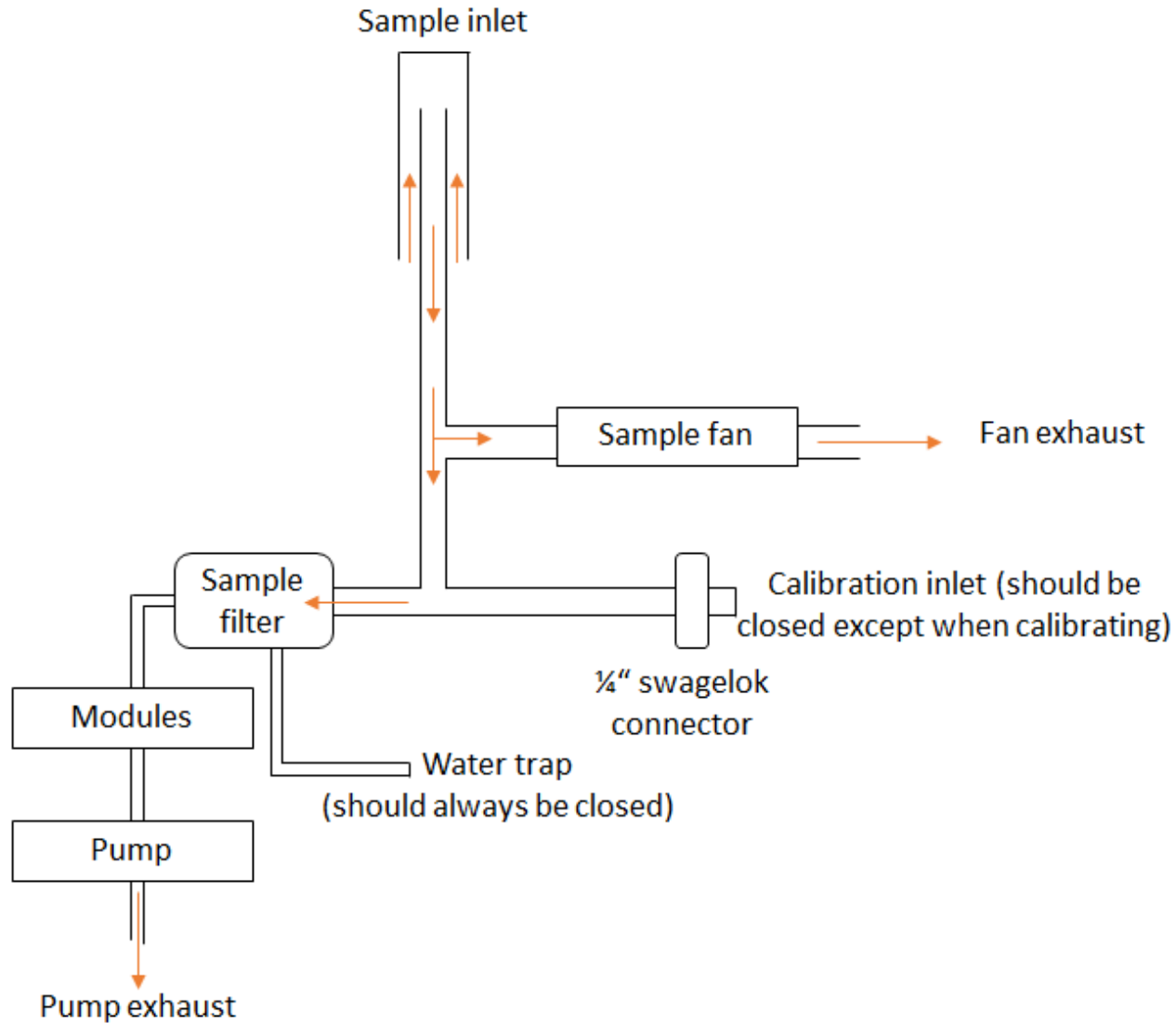
| A | B | C | D | E |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|---|---|
| HOW TO KNOW WHICH AIRPOINTER HOUSING YOU NEED? | | | | |
| Simply answer the 4 questions below and see the results at the bottom of the page | |  | | |
| 1- Which module do you want in your airpointer? | | | | |
| <input checked="" type="checkbox"/> O3 | <input type="checkbox"/> VOC | | | |
| <input checked="" type="checkbox"/> CO | <input type="checkbox"/> NMHC | | | |
| <input checked="" type="checkbox"/> SO2 | <input type="checkbox"/> PM MultiPM | | | |
| <input type="checkbox"/> H2S | <input checked="" type="checkbox"/> PM Grimm EDM180 | | | |
| <input type="checkbox"/> SO2+H2S | <input type="checkbox"/> PM BAM 2.5 | | | |
| <input checked="" type="checkbox"/> NOx | <input type="checkbox"/> PM BAM 10 | | | |
| <input type="checkbox"/> NOx+NH3 | <input type="checkbox"/> PM T640 | | | |
| <input type="checkbox"/> BTEX | <input type="checkbox"/> PM T640x | | | |
| 2- Is the maximum outside temperature > 42°C? | | | | |
| <input type="radio"/> Yes <input checked="" type="radio"/> No | | | | |
| 3- Do you want Thermo or Teledyne-API benches? | | | | |
| <input checked="" type="radio"/> Thermo <input type="radio"/> Teledyne API | | | | |
| 4- In which country will the airpointer be installed? | | | | |
| <input type="text" value="Albania"/> | | | | |
| You need this Airpointer model: | | HC | | |
| with this AC voltage: | | 230 V | | |
| and this AC frequency: | | 50 Hz | | |
| and this type of LTE modem: | | LTE Router or Modem 4G/LTE | | |
| <i>v1.0 KC Apr2019</i> | | | | |

Excel sheet available here:
<https://www.airpointer.tech/airpointer-base-unit/>

Sampling system



Sampling system



Parameters

Actual System Values no calibration active

System SensorInterface Board

| | | | | | |
|------------|------|----|-----------|-------|------|
| RoomTempUp | 30.3 | °C | PressPump | 271.1 | mbar |
|------------|------|----|-----------|-------|------|

Pump Control Board

| | | | | | |
|----------------|------|-----|----------|-------|---|
| AmbientTemp | 34.9 | °C | DC5V | 5.34 | V |
| PumpRoomTemp | 33.6 | °C | DC12V | 12.7 | V |
| FanPumpRoomRPM | 2940 | rpm | DC15V | 15.0 | V |
| FanSampleRPM | 3930 | rpm | DCneg15V | -15.5 | V |
| Key 1 | 0 | | Key 2 | 0 | |

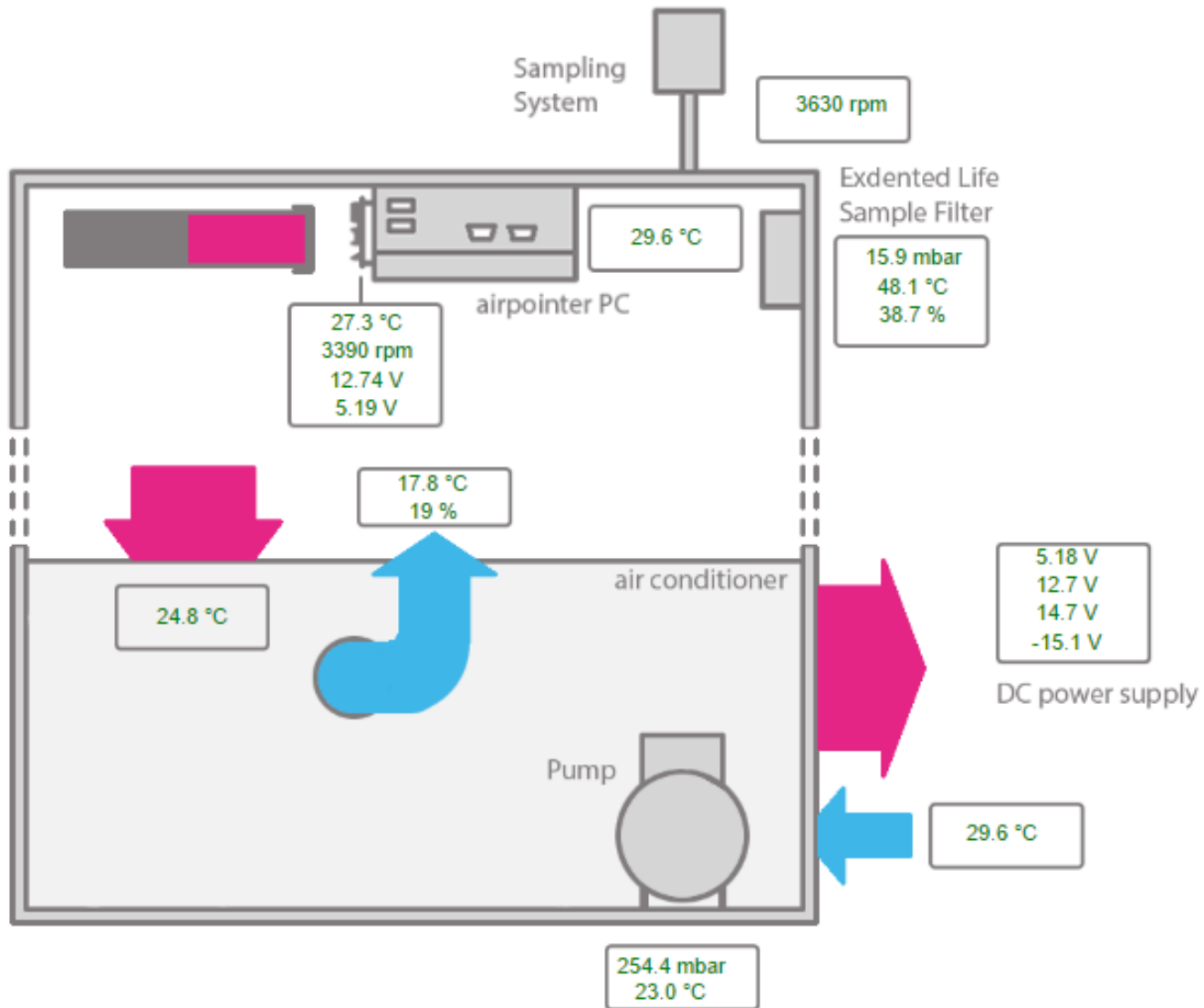
Clima Control Board

| | | | | | |
|---------------|-------|----|---------------|------|----|
| RoomTemp | 29.3 | °C | CoolerOutTemp | 24.7 | °C |
| Coolerpercent | 100.0 | % | HeaterPercent | 0.0 | % |
| ClimaActMode | 1 | % | - | | |

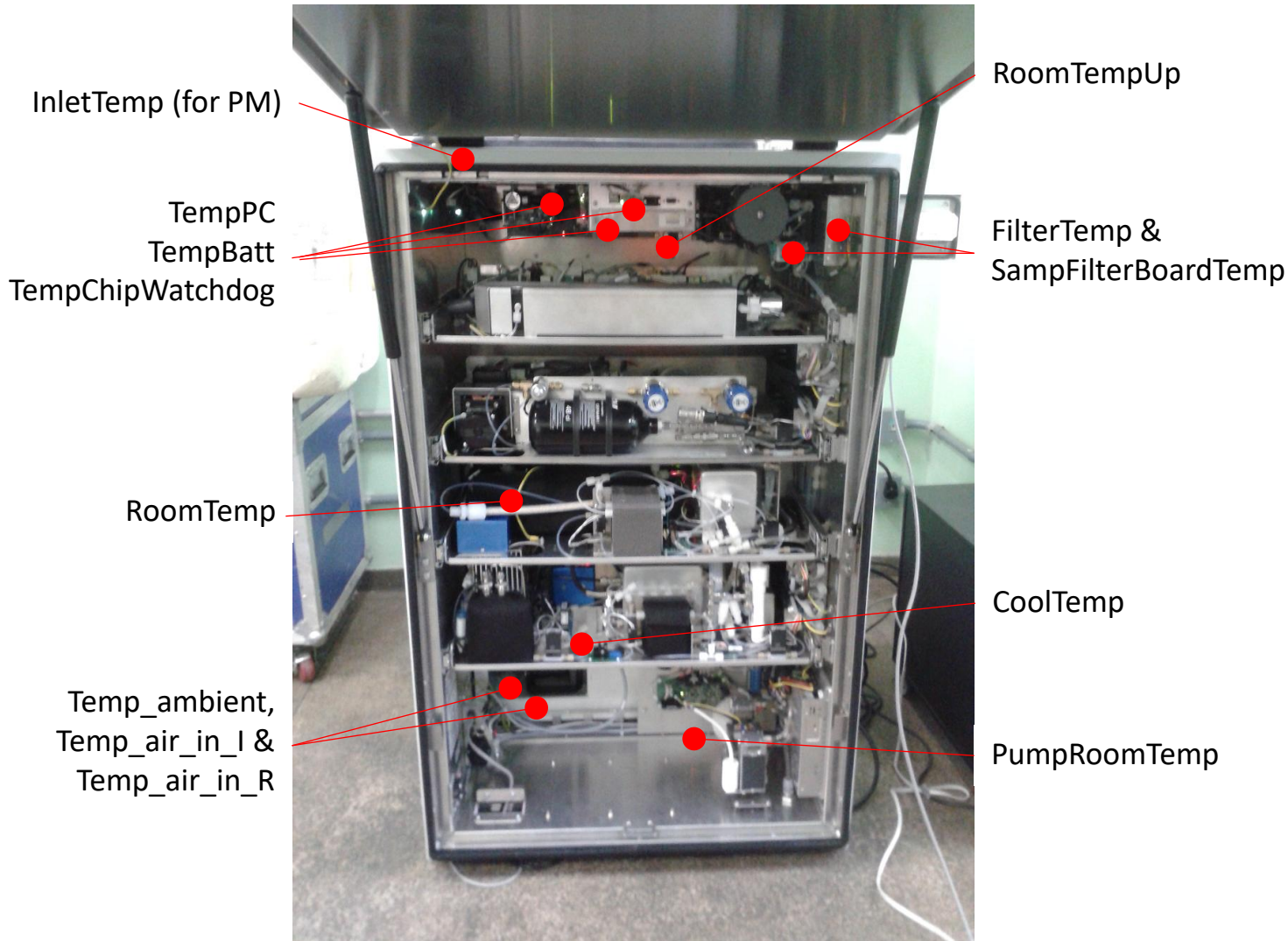
Watchdog Board

| | | | | | |
|------------|------|-----|------------------|-----------------|----|
| DC5V_PC | 5.16 | V | DC12V_Wtd | 12.80 | V |
| Temp_PC | 33.3 | °C | TempChipWatchdog | 31.0 | °C |
| Countdown | 1459 | sec | Restart in | 00h 24min 19sec | |
| Restarts | 0 | | RestartSLT | 0 | |
| FanUpSpeed | 3420 | rpm | | | |

Parameters



Parameters: temperatures monitored



Parameters: voltages

Watchdog board
5V DC & 12V DC

AC inlet:
230V/50Hz or
115V/60Hz



DC Power supply: +12V

DC Power supply:
+5V, +15V, -15V

Preventive maintenance

Every month:

- Replace \varnothing 47mm sample filter
- Clean air conditioner grilles
- Clean pump room ventilation inlet, and sample fan outlet (airpointer 2D and 4D only)

Every trimester:

- Exchange zero air adsorbants and DFU filter
- Replace ext.life sample filter

Every year:

- Clean sampling probe
- Clean air conditioner (HC airpointer only)
- Rebuild pump

Full schedule available here:

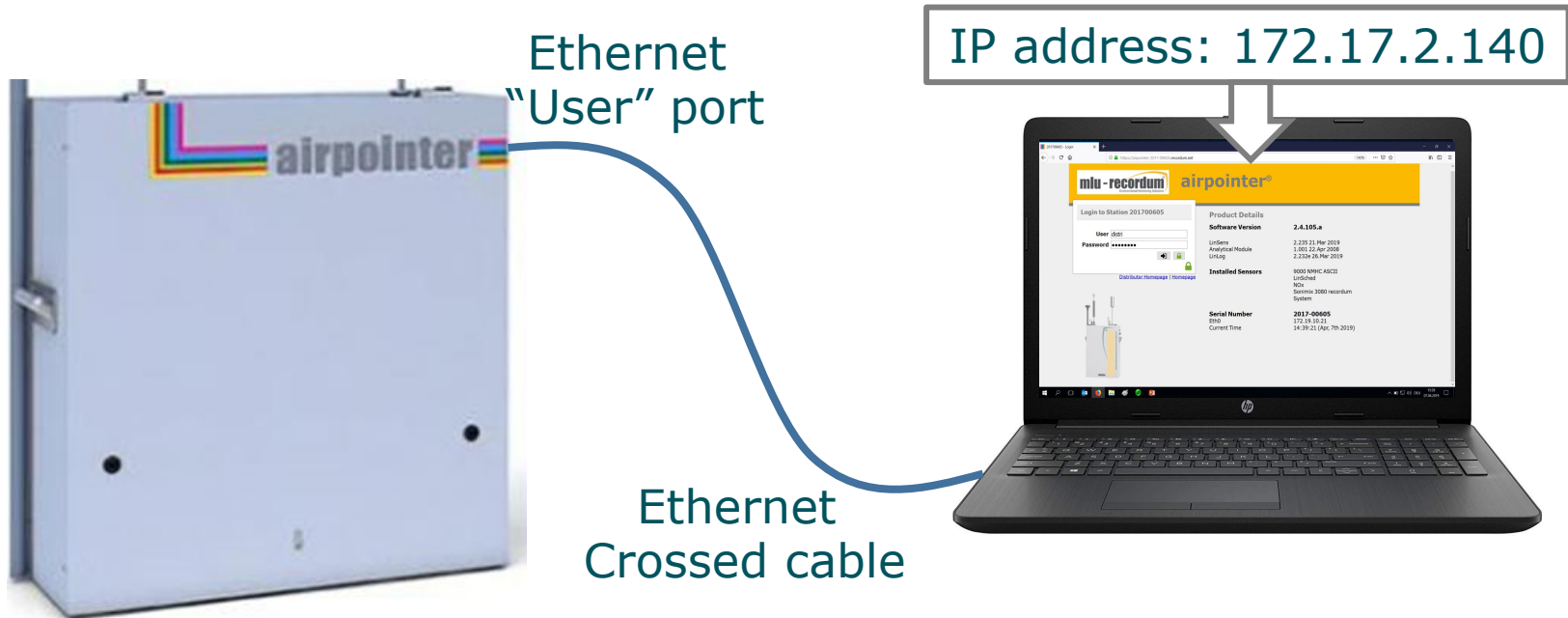
<https://www.airpointer.tech/maintenance-schedule/>

Calibration

- Under normal operation, nothing to calibrate

How to connect

- Directly



How to connect

- Using a Local Area Network

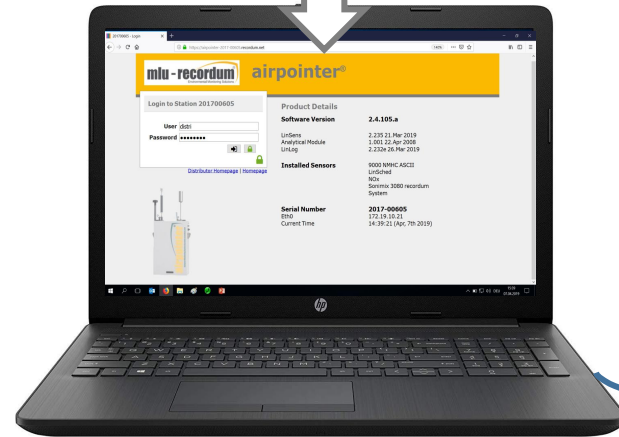


Ethernet
"System" port

Ethernet
Straight cable

LAN

Local IP (e-g: 192.168.0.10)



Ethernet
Straight cable

LAN

How to connect

- Over the internet

(S/N, e-g: 2017-00605)

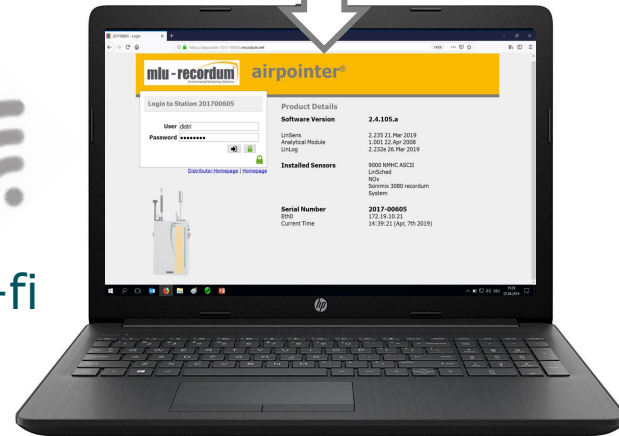


4G antenna

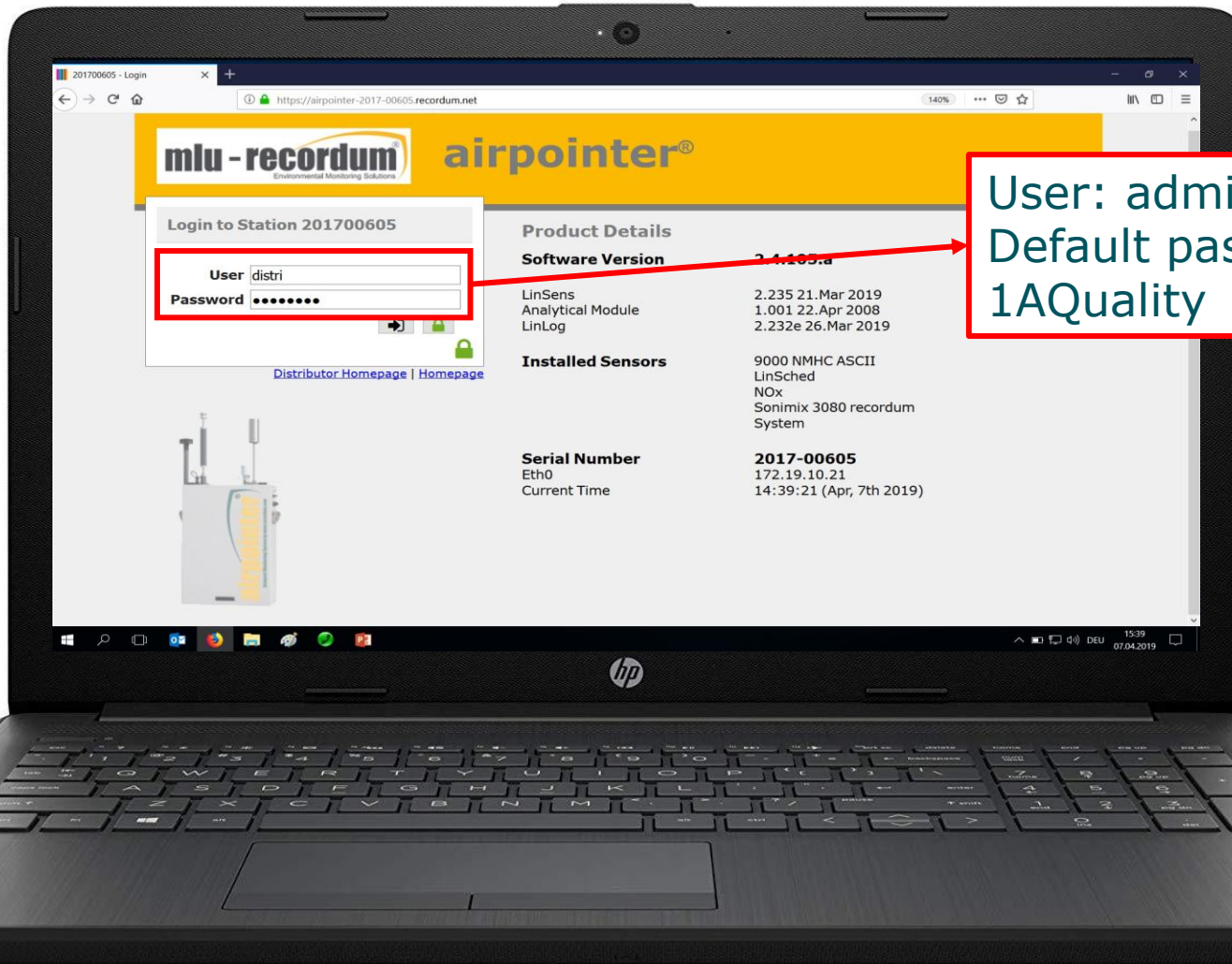
URL: airpointer-YYYY-00xxx.recordum.net



Wi-fi



How to connect



Thank you for your attention!