

REMOTE CLIMATE CONTROL

MOBILE CLOUD-BASED MONITORING SOLUTION



CONTROL CLIMATE MANAGEMENT PROCESSES REMOTELY

Simplify from the Dantherm Group is a cloud-based sensor solution designed to remotely control, monitor and analyse climate management processes. This tool provides you with the fully transparent feedback you need to optimise your climate control installations.

As a business management tool, Simplify is ideal for various industries, especially for water damage control companies and their insurance partners, construction businesses, pest control and many more.

The use of Simplify will reduce the need for on-site visits, providing remote access to critical data and streamlining your day-to-day operations. With Simplify, data is collected from wireless sensors on site and is made available in the cloud via the Simplify Dashboard. The system has a simple and intuitive user interface, making it easy to use for all staff.

Monitoring gives you the ability to not only track the performance of the process itself, but also the performance of your equipment, giving real-time information on power consumption and machine status from the comfort of your office.

FEATURES

- Mobile cloud-based system (GSM) transmitting measured data from sites to a web-based dashboard
- Documents the process through data and graphs in real-time showing temperature, relative humidity, saturated vapor pressure, water content, dew point, kW, kWh, eCO₂, VOC and general air quality
- Reduces the need for on-site monitoring, saving companies travel and labour costs, whilst increasing capacity to take on more jobs
- Remote on/off switching of any connected equipment
- Alarms programmable on sensor level and email notification if thresholds are exceeded
- Data logging provides a historic catalogue of past jobs, providing an accurate audit trail for clients
- Software updates for the Simplify Control Unit, Sensor Box, Relay Box and Integration Box can be performed directly from the cloud

WHY CAPTURE CRUCIAL JOB DATA REMOTELY?

From your computer or tablet you can access data in the cloud and read information about temperature, humidity, running time, energy consumption and indoor air quality from all your sites.

The system allows:

MONITORING: Simplify monitors the function of each dehumidifier, heater and other equipment installed

DATA ANALYSIS: Simplify visualizes and analyses data providing the base for evaluation, whether the process is performing as expected

RECORDING: Simplify records the level of humidity, temperature and indoor air quality, giving secure documentation about the process

COST REDUCTION: Simplify reduces operating costs as it significantly reduces the number of site visits required for each claim

BENEFITS

- Remote monitoring provides contractors with a way of not only capturing crucial job data, such as temperature, humidity and indoor air quality in key locations, but also provides the ability to share data with stakeholders such as insurance companies or construction management at building sites and more
- Data collection reinforces the service(s) you provide.
- The data can be developed into reports, illustrating to clients that the job has been carried out in a full and thorough way
- Monitoring minimises interruption to the jobsite
- Ability to identify when a policyholder is turning off equipment is a powerful tool when handling a claim
- Minimising downtime reduces overall project costs and life cycles

Simplify provides you with the fully transparent feedback you need to optimise your climate control processes.

HOW DOES SIMPLIFY WORK?

The Simplify sensors measure the temperature and the humidity in the room or in materials i.e. concrete, as well as indoor air quality and send the information to the Simplify Control Unit, the GSM communication base-station. The Simplify Control Unit sends the information to the cloud where it is available for all personnel.



WHAT DOES SIMPLIFY CONSIST OF?

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SIMPLIFY APP



FUNCTION

The Simplify App is required to program the Simplify solution on-site.

The app opens the Smartphone or tablet's camera and enables the scanning of QR codes on both Simplify Control Unit and the selection of sensors in the Simplify solution.

The app enables the programming of each Simplify solution with the required sensors and in the process name the sensors. After programming the Simplify solution, the app is used to register the project on the Simplify Dashboard. The app is also used to end the project.

APPLICATIONS

- Restoration processes after water damages
- Monitoring buildings in the construction phase
- Indoor air climate analysis
- The Simplify App is used to program Simplify solutions

FEATURES

- App for IOS minimum version IOS 10. App Store
- App for Android minimum version 5.1. Google Play



INSTALLATION

- Using the Simplify app, the QR code on the Simplify Control Unit is scanned to allow programming a flexible network of sensors to it
- Each sensor is scanned one by one, named and then registered on the Simplify Dashboard
- When the job is done, data is stored in the Simplify Dashboard using the Simplify App to archive, thereby preparing the Simplify Control Unit for the next job

APP EXAMPLES

SET UP SIMPLIFY
CONTROL UNIT



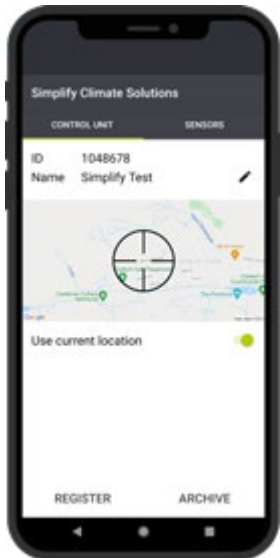
SCAN QR CODE ON THE
SIMPLIFY CONTROL UNIT



ENTER JOB NAME
AND LOCATION



ADD AND REGISTER SENSORS
TO THE NETWORK



SIMPLIFY DASHBOARD

FUNCTION

The Simplify Dashboard is part of the Simplify solution.

The dashboard presents all of the Simplify data collected from the job site to the user. Each user of the system has their own unique login and visibility of all systems assigned to them, including access to archived information for each system. Hierarchical structures can be created to simulate different authority levels in the business.

For added user-friendliness, the user can access data in both chart and tabular form with a single click.

The user can get alarms sent to programmed email addresses, if equipment becomes passive or exceeds programmed thresholds.

Both live cases and historic cases (accessed from the archive) can be extracted in Excel-format or an editable Word-file using the Report Generator.



APPLICATIONS

- Restoration processes after water damages
- Monitoring buildings in the construction phase
- Indoor air climate analysis
- The Simplify Dashboard is used to access the data from the Simplify solutions
- Permanent monitoring of building structures

FEATURES

- The dashboard can be accessed using almost all modern browsers such as Chrome, Edge, Firefox, Safari (MAC)
- Control Unit: Missing mains power, GSM level, Ethernet, geo-position
- Sensor Box: remaining battery power, signal strength to Control Unit
- Sensor Probe – Relative Humidity/Temperature: Temperature, relative humidity, vapor pressure, dew point, water content
- Sensor Probe – Resistive: Resistivity, surface temperature, moisture content
- Sensor Probe – Indoor Air Quality: eCO₂, TVOC and indoor air quality level

INSTALLATION

- The dashboard is reached at the link: <https://simplifyclimatesolutions.com>
- Access to the dashboard is opened after receiving a user and password

SIMPLIFY CONTROL UNIT

FUNCTION



The Simplify Control Unit is the controller in the Simplify monitoring solution. Using a wireless sensor network data is collected and transmitted in real-time to the Simplify Dashboard. The dashboard is accessible on PC, tablet and smartphone.

The Simplify setup is easily programmable on site using the Simplify App for both Android and iOS.

The Simplify solution generally increases knowledge and documentation i.e. drying processes and reduces the need for costly visits on site. The Simplify solution is also used for monitoring building structures, indoor air quality and to remotely receive data in industrial applications.

Simplify Control Unit is the basic part of the Simplify solution connecting using GSM or Ethernet whenever available and communicating and controlling the network of sensors and equipment on site programmed to it using 868 MHz radio frequency.

The Simplify Control Unit transmits data to the cloud from all sensor types and controls demands to turn equipment on/off.

APPLICATIONS

- Water damage restoration
- Monitoring buildings in the construction phase
- Indoor air climate analysis
- Permanent monitoring of building structures
- Food processing, agriculture and storage

FEATURES

- LED indicators for status information
- Simplify Control Unit has a powerful magnet on the backside for easy placement on metal surfaces or use of wall-mounting brackets
- No data loss if GSM fails
- Restoring GSM connection if lost
- Battery backup if 230V fails for 12 hours
- Integrates to all Dantherm Group equipment using CC6 controller
- 2G GSM network or Ethernet/LAN
- World wide roaming SIM card

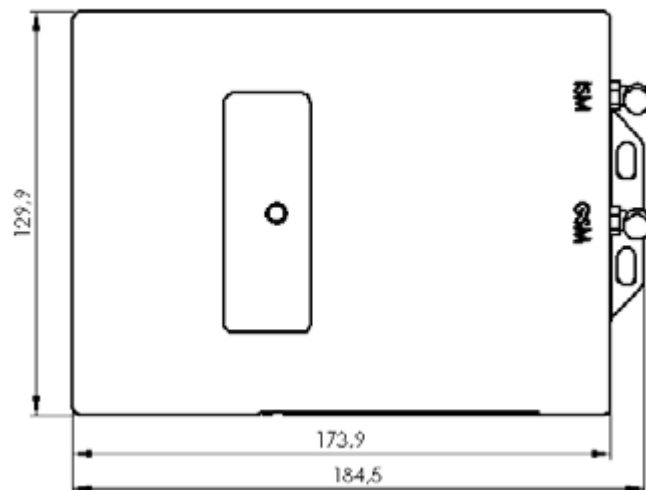
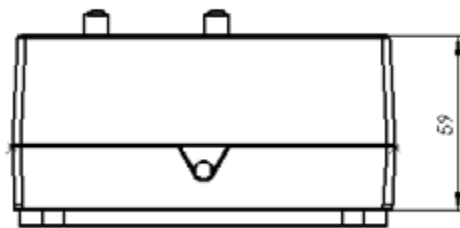
INSTALLATION

- Using the Simplify App, the QR code on the Simplify Control Unit is scanned to allow programming a flexible network of sensors to it. Each sensor is scanned one by one, named and in the end registered on the Simplify Dashboard
- The Simplify Control Unit will automatically find the strongest, GSM network available when turned on or use Ethernet/LAN if connected
- When the Simplify Control Unit is online each sensor can be connected one by one
- The Simplify Control unit has LED indication when all sensors are connected
- Simplify Dashboard shows when all sensors are active in the dashboard
- When the job is done, data is stored in the Simplify Dashboard Archive using the Simplify App thereby readying the Simplify Control Unit for the next job
- The solution is a mobile solution demanding no fixed installation

Specifications	Units	Simplify Control Unit
Mains Voltage	VAC	85-264
	Hz	50/60
Power consumption	W	2.7
Backup battery	VDC	3.7
GSM quad band	MHz	850/900/1800/1900
GPRS class 12		
ISM Tx power max	mW	10
ISM Tx/Rx frequency	MHz	868
Protection class		IP54
Storage temperature range	°C	-40 - +60
Operating temperature range	°C	-20 - +60
Ethernet: RJ45		Yes
RS 485 Modbus: RJ45		

To get optimum information and functionality we recommend to use a maximum of 50 sensors on the same installation.

DIMENSIONS





SIMPLIFY SENSOR BOX



FUNCTION

The Simplify Sensor Box is part of the Simplify solution. The Simplify Sensor Box is used to transmit data from the connected sensor probe (Relative Humidity/Temperature, Resistive or Indoor Air Quality), back to the Simplify Control Unit using a 868 MHz radio frequency.

The Sensor Box is powered by a regular 9V lithium battery and has an expected lifetime of 5+ years in default reporting mode. The battery can be easily replaced by the user. Power is turned on by mounting the sensor probe and likewise turned off by dismounting the sensor probe. Connection of the probe is via a mini DIN connector.

The Simplify Sensor Box communicates using acoustic indication for

- Battery level and Simplify Sensor Probe working
- Connection to Simplify Control Unit established

The Simplify Sensor Box can be controlled from the Simplify Dashboard, adjusting the data frequency.

APPLICATIONS

- Restoration processes after water damages
- Monitoring buildings in the construction phase
- Climate analysis of indoor climate
- Monitoring temperature/humidity in different materials

FEATURES

- Transmits data from the sensor probes (Relative Humidity/Temperature, Resistive or Indoor Air Quality) to the Simplify Control Unit using 868 MHz radio frequency
- Flexible, adjustable data frequency from Simplify Dashboard
- Easy to change battery
- Simple disconnection of probes makes service and maintenance straight forward
- Integrated wall mount bracket and magnet

ACCESSORIES

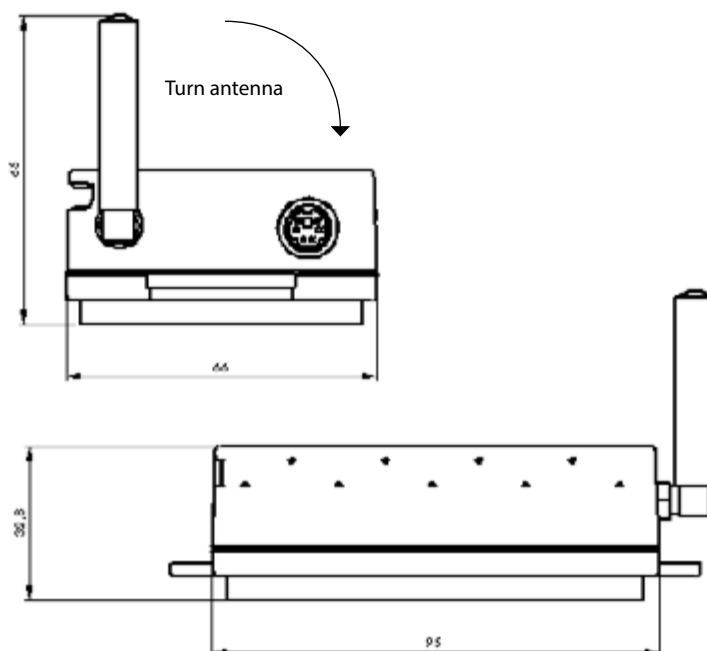
- Sensor probe Relative Humidity/Temperature available 24cm, 300cm and 2000cm; Sensor Probe Resistive and IAQ available 24cm

INSTALLATION

- The Simplify Sensor Box is part of the Simplify solution. After using the Simplify App and scanning the Simplify Control Unit QR code, it is possible to connect the Simplify Sensor Boxes to the Simplify Control Unit thereby connecting a network of sensors to be placed on the desired places on a location
- When mounting the sensor probe the Sensor Box power is activated and the user is alerted via an acoustic signal of two beeps. Successful connection to the Control Unit is then confirmed with a following three beeps
- From the Simplify Dashboard the frequency of data from the Simplify Sensor Box can be changed to acquire less or more frequent data
- Probe can be used in free air or inserted into the material where relative humidity and temperature must be measured
- The Simplify Sensor Box is connected to the sensor probe via a mini DIN connector
- The Simplify Sensor Box is automatically powered ON, when probe is connected
- Simplify Sensor Box has a powerful magnet on backside for easy placement on metal surfaces or use of wall-mounting bracket

Specifications	Units	Simplify Sensor Box
Voltage (battery)	VDC	9
Current in sleep mode	uA	4.5
Current in Tx mode	mA	12
Tx power max	mW	10
Tx/Rx frequency	MHz	868
Protection class		IP54
Storage temperature range	°C	-40 - +60
Operating temperature range	°C	-20 - +60
Battery life (1200mA Li)	Years	+5

DIMENSIONS



SIMPLIFY SENSOR PROBES

SENSOR PROBE – RELATIVE HUMIDITY/TEMPERATURE



FUNCTION

Simplify Sensor Probe – Relative Humidity/Temperature (RH/TEMP) is part of the Simplify solution.

The probe measures relative humidity and temperature with a unique precision of $\pm 2.0\%$ in the range from 0-100% RH and $\pm 0.2^{\circ}\text{C}$ deviation on the temperature measurements.

The opening of the probe, from where the probe measures is IP67 protected (the probe is dust tight and it is submersible in water $<1\text{m}$ up to 30 mins) giving ideal protection in harsh environments.

The diameter of the probe is only 8mm, minimising the size of the repair work required post-drying. The probe comes with different lengths of cable – 24cm, 300cm, and 2000cm.

APPLICATIONS

- Restoration processes after water damages
- Monitoring buildings in the construction phase
- Monitoring buildings throughout their lifetime
- Climate analysis of indoor climate
- The probe can be used in air and materials such as wood, concrete where RH% measuring is required

FEATURES

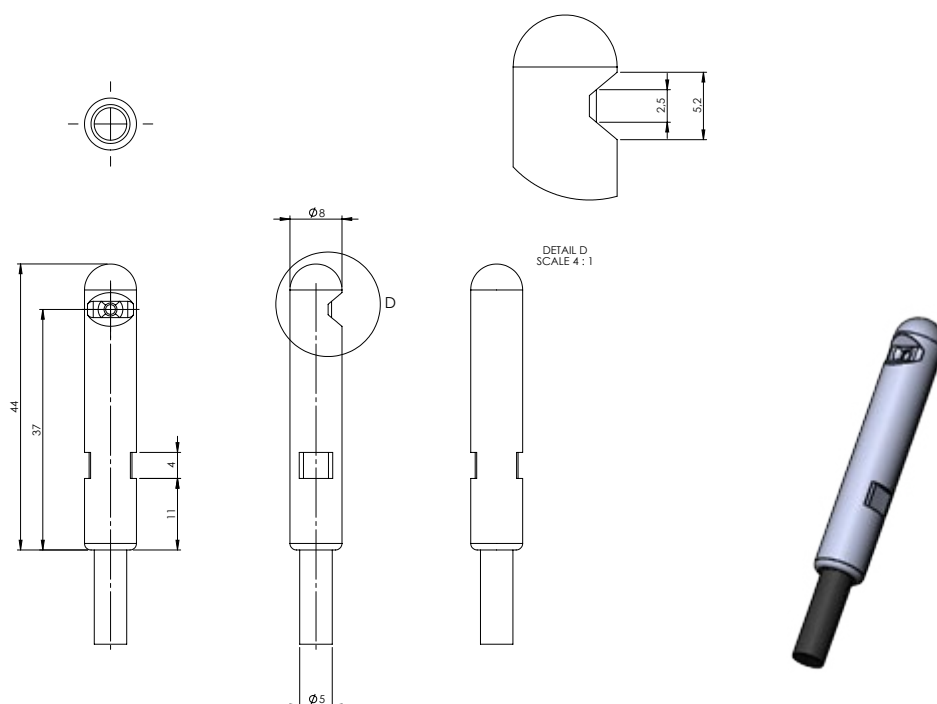
- High accuracy
- Slim design $\varnothing 8\text{mm}$
- IP67
- Rugged design
- Combined humidity and temperature measurement

INSTALLATION

- The Simplify Sensor Probe - Relative Humidity/Temperature is part of the Simplify solution. It is connected to the Simplify Sensor Box to enable measuring temperature and humidity data
- The Simplify Sensor Box is automatically powered ON, when probe is connected
- The probe is connected to the Simplify Sensor Box via a mini DIN connector
- The probe can be used in free air or inserted into materials where relative humidity and temperature must be measured

Specifications	Units	Simplify Sensor Probe - RH/TEMP
Voltage	VDC	3.3
Current	mA	1.5
Power	mW	5
RH range	%RH	0 -100
Tolerance RH	%RH	+/- 2
Resolution RH	%RH	0.01
Temperature range	°C	-40 - +100
Tolerance Temp	°C	+/- 0.2
Resolution Temp	°C	0.01
Protection class (Probe tip)		IP67

DIMENSIONS



SIMPLIFY SENSOR PROBES

SENSOR PROBE - RESISTIVE



FUNCTION

The Simplify Sensor Probe – Resistive is part of the Simplify solution.

The probe is measuring the content of water in different materials with a tolerance of $\pm 1\%$ WME in the range from 0-100% WME (Wood Moisture Equivalent) and $\pm 1^\circ\text{C}$ on the temperature in the area of 0-50°C on the indicative surface temperature.

The resistive probe is classified as IP64 making the probe maximum resistant against dust and able to resist splashes of water.

The probe can be used with different pins, screws with M4 thread or using the 3,5mm jack. The probe comes with a cable length of 240mm.

APPLICATIONS

- Restoration processes after water damages
- Monitoring building structures in building lifetime
- Monitoring buildings in the construction phase
- The probe can be used in materials such as wood (WME), concrete and materials (MC)

FEATURES

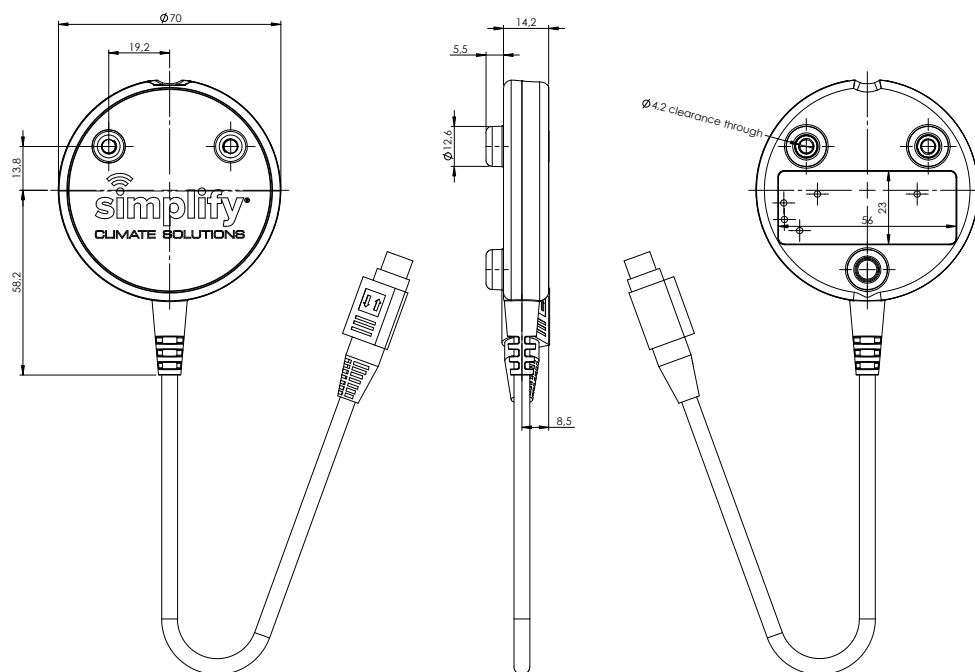
- High accuracy
- Flexible use with different measuring tools
- IP 64
- Rugged design
- Combined WME and temperature and derived MC in dashboard
- Cable length 240mm

INSTALLATION

- The Simplify Sensor Probe – Resistive is part of the Simplify solution. It is connected to the Simplify Sensor Box to enable measuring water content in materials using the resistive method (WME) and the indicative surface temperature.
- The Simplify Sensor Box is automatically powered ON, when the probe is connected
- The probe is connected to the Simplify Sensor Box via a mini DIN connector
- Using the different tools inserted in materials the probe measures water content (WME)

Specifications	Units	Simplify Sensor Probe – Resistive
Voltage	VDC	3.3
Current	mA	10
Power	mW	33
WME range	%	10-30
Tolerance WME	%	+/- 1.5% WME
Resolution WME	%	0.1
Temperature range	°C	-40 - +100
Tolerance Temp	°C	1°C from 0 – 50
Resolution Temp	°C	0.1
Protection class		IP64

DIMENSIONS



SIMPLIFY SENSOR PROBES

SENSOR PROBE – INDOOR AIR QUALITY

FUNCTION



The Simplify Sensor Probe – Indoor Air Quality is part of the Simplify solution.

The probe is measuring the quality of the air using TVOC (Total Volatile Organic Compounds) in the unit $\mu\text{g}/\text{m}^3$ (microgram/ m^3).

The probe is designed for monitoring indoor air quality (IAQ) by detecting Total Volatile Organic Compounds (TVOC). Both TVOC and the more familiar gas carbon dioxide (CO_2) are among the factors in IAQ, and both are emitted by humans. Since CO_2 is better understood by the general public than TVOC, the Simplify Sensor Probe – Indoor Air Quality comes with a method of estimating CO_2 . The correlation between TVOC and the CO_2 - concentration has been investigated for indoor environments and implemented in algorithm libraries.

The probe will adjust to the local indoor air climate in two steps. First 10 minutes a calibration is performed to background levels. After the calibration the probe will be fully acclimatized after 48 hours. Total analysis of the indoor air quality is visualized on a IAQ scale from 0 - +5, where 0 indicates extremely good indoor air quality and +5 indicates bad indoor air quality.

The IAQ scale is defined according to UBA (The German Environment Agency). Third party reports available on request.

APPLICATIONS

- Analysis of indoor air quality in buildings
- Measurement of TVOC (Total Volatile Organic Compounds)
- Measurement of eCO_2 , where people are present

FEATURES

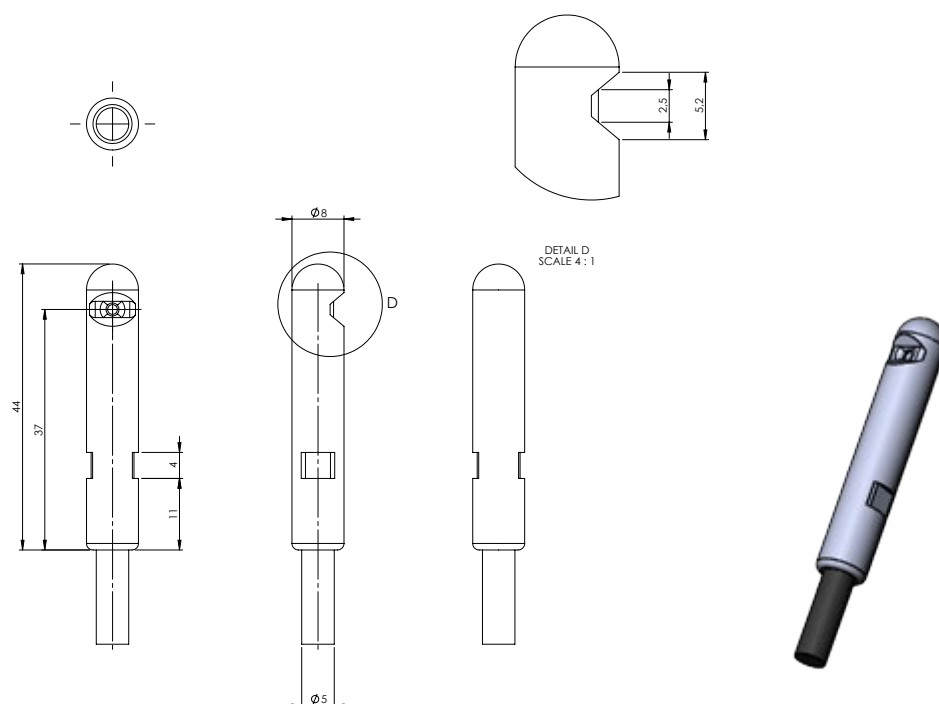
- Slim design $\varnothing 8\text{mm}$
- IP 67
- Cable length 240mm
- Rugged design
- TVOC and eCO_2
- IAQ index according to UBA (The German Environment Agency)

INSTALLATION

- The Simplify Sensor Probe – Indoor Air Quality is part of the Simplify solution. It is connected to the Simplify Sensor Box to measure indoor air quality (TVOC – Total Volatile Organic Compounds) and eCO₂
- The Simplify Sensor Box is automatically powered ON, when the probe is connected
- The probe is connected to the Simplify Sensor Box via a mini DIN connector

Specifications	Units	Simplify Sensor Probe - IAQ
Voltage	VDC	3.3
Current active/sleep	mA	5.2/0.000450
Power average	mW	0.16
TVOC range	µg/m ³	0-20.000
Tolerance TVOC	µg/m ³	-
Resolution TVOC	µg/m ³	0.1
eCO ₂ range	ppm	400-5000
Tolerance eCO ₂	ppm	+/- 25%
Resolution eCO ₂	ppm	0.1
IAQ range	IAQ	0 - +5
Tolerance IAQ	IAQ	+/- 1 IAQ
Resolution IAQ	IAQ	0.01
Temperature range	°C	-40 - +100
Protection class		IP67

DIMENSIONS





SIMPLIFY RELAY BOX



FUNCTION

The Relay Box is a part of the Simplify solution.

The Simplify Relay Box has 3 independently switchable 230V AC outlets which can be used to remotely control power to different pieces of equipment in a property.

The Simplify Relay Box with an on-board MID approved kWh meter measures the total power consumption (kW and kWh) of all connected devices and displays this physically on the meter, and also in the Simplify Dashboard.

The 230V AC outlets can be individually on/off controlled from the Simplify Dashboard thereby turning equipment on or off remotely.

The Simplify Relay Box has a maximum total capacity of 16A* around 3.6kW@230V AC.

APPLICATIONS

- On/off controls of dehumidifiers, heaters, fans, etc
- Correct kWh registration (MID-approved)

FEATURES

- Collects power consumption from equipment connected and transmits data using 868 MHz radio frequency to the Simplify Control Unit
- Three power outlets individually controllable from Simplify Dashboard
- If the Simplify Relay Box is overloaded (Max Current), a buzzer will sound and a red LED will light up
- The Relay Box will cut power to all outlets and needs to be reset by the user by removing the plug from the outlet
- It must be power cycled to return to normal operation

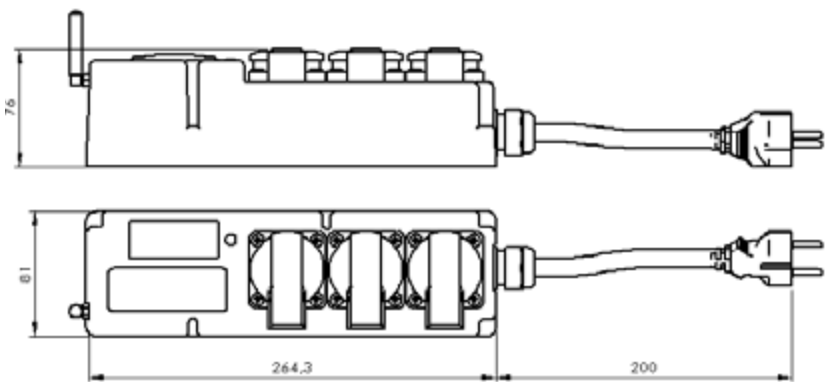
INSTALLATION

- The Simplify Relay Box is part of the Simplify solution. Using the Simplify App and scanning the Simplify Control Unit QR code, it is possible afterwards to connect the Simplify Relay Boxes to the control unit, thereby collecting power consumption of equipment used.
- The Simplify Relay Box socket outlets can be on/off controlled from the Simplify Dashboard each outlet individually.
- Maximum total power load 16A *
- The Simplify Relay Box is connected to a suitable 230V AC power socket with protective earth
- Up to three pcs. of equipment can be connected to the Simplify Relay Box

Specifications	Units	Simplify Relay Box*
Mains Voltage	VAC	184-264
	Hz	50
Current total max	A	16
Tx power max	mW	10
Tx/Rx frequency	MHz	868
Protection class		IP54
Storage temperature range	°C	-40 - + 60
Operating temperature range	°C	-20 - + 60

**13A for UK model, 10A for CH model*

DIMENSIONS



SIMPLIFY CC 4 BOX



FUNCTION

The Simplify CC 4 Box is a part of the Simplify solution.

The Simplify Relay Box has four independently switchable 230V AC outlets which can be used to remotely control power to different pieces of equipment in a property.

The Simplify Relay Box with an on-board MID approved kWh meter measures the total power consumption (kW and kWh) of all connected devices and displays this physically on the meter, and also in the Simplify Dashboard

The 230V AC outlets can be individually on/off controlled from the Simplify Dashboard thereby turning equipment on or off remotely

The Simplify CC 4 Box has a maximum total capacity of 16A* around, can be locked to fulfill MID requirements and has an included RCD.

APPLICATIONS

- Restoration processes after water damages
- Monitoring buildings during construction phase
- Environmental control of indoor climate

FEATURES

- Collects power consumption from equipment connected and transmits data using 868 MHz radio frequency to the Simplify Control Unit
- Four power outlets individually controllable from Simplify Dashboard
- If the Simplify CC 4 Box is overloaded (Max Current), a buzzer will sound and a red LED will light up. The CC 4 Box will cut power to all outlets and needs to be reset by the user by removing the plug from the outlet. It must be power cycled to return to normal operation.
- Robust rotomolded housing with lock
- In AERCUBE® design, colour and branding it can be customized (minimum order quantity 15)

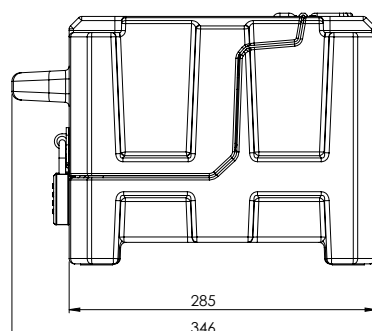
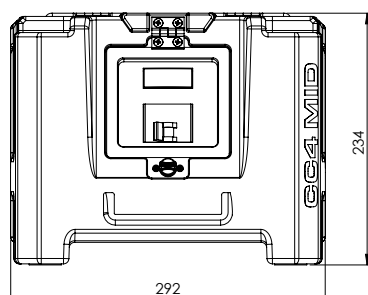
INSTALLATION

- The Simplify CC 4 Box is part of the Simplify solution
- After using the Simplify App and scanning the Simplify Control Unit QR code, it is possible to connect an indefinite number of Simplify CC 4 Boxes to the Control Unit, thereby collecting power consumption of the equipment used
- The Simplify CC 4 Box socket outlets can be on/off controlled individually via the Simplify Dashboard
- The Simplify CC 4 Box is connected to a suitable 230V AC power socket with protective earth
- Up to four pcs. of equipment can be connected to the Simplify CC 4 Box
- Protection through included RCD
- Maximum total power load 16A*

Specifications	Units	Simplify CC 4 Box*
Voltage	VAC	207-253
Current total max	A	16
Tx power max	mW	10
Tx/Rx frequency	MHz	868
Protection class		IP54
Storage temperature range	°C	-40 - +60
Operating temperature range	°C	-20 - +60

*13A for UK model, 10A for CH model

DIMENSIONS



SIMPLIFY INTEGRATION BOX



FUNCTION

The Simplify Integration Box is specially designed for integrating the CDT dehumidifiers to the Simplify solution.

When installed inside the CDT, the Simplify Integration Box enables temperature, humidity and power consumption data from the CDT being transmitted to the Simplify Dashboard. The Simplify Integration Box gives a full picture of the status of the CDT, the kW's and kWh's used by the dehumidifier.

Also alarm indications from the CDT such as "full water container" and "technical" faults are transmitted to the Simplify Dashboard giving the user a full view of the CDT's operational functionality on site.

The Simplify Integration Box makes it possible to turn the dehumidifier on and off from the Simplify Dashboard.

The Simplify Integration Box is easily installed inside the CDT and connected to the dehumidifier control by the RJ11 cable.

APPLICATIONS

- Inside the CDT to receive data from the dehumidifier and control it from remote

FEATURES

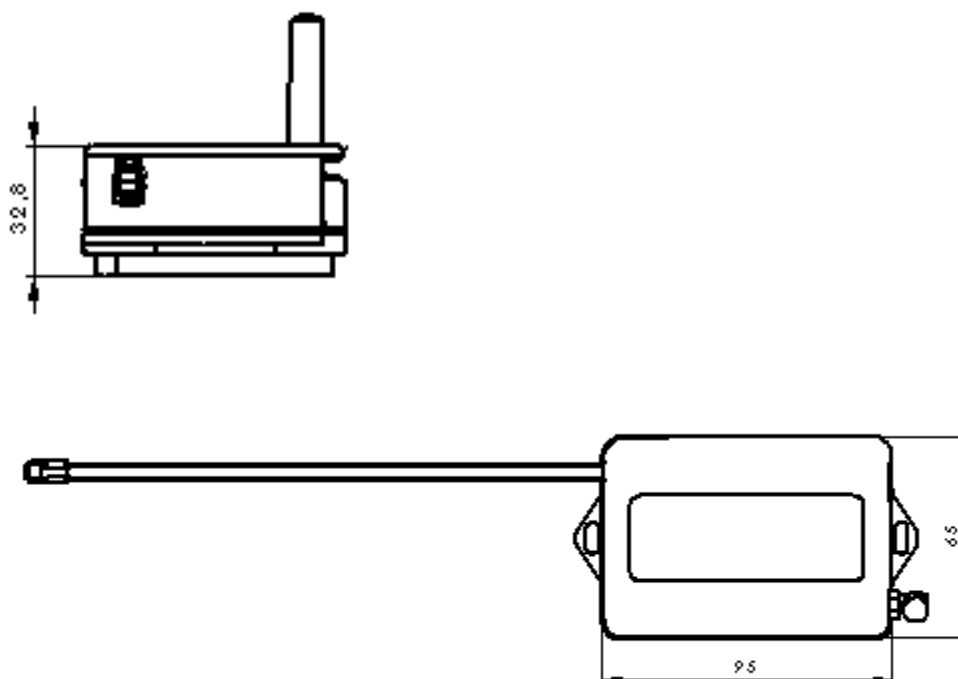
- The Simplify Integration Box sensor transmits humidity, temperature from the sensor installed in the CDT and power consumption (kW and kWh) to the Simplify Dashboard
- Flexible upload frequency of data
- Turn the CDT on and off from Simplify Dashboard
- Wireless 868 MHz link to Simplify Control Unit
- Mounted inside CDT using powerful magnet

INSTALLATION

- The Simplify Integration Box is part of the Simplify solution
- Using the Simplify App and scanning the Simplify Control Unit QR code, it is possible afterwards to connect an indefinite number of Simplify Integration Boxes (CDT dehumidifiers) by scanning the QR code on the unit and naming it, thereby creating a network of dehumidifiers on site
- The dehumidifiers can be controlled from the Simplify Dashboard
- Simplify Integration Box has a powerful magnet on the rear for easy placement inside CDT
- RJ11 wired connection to CDT controller (DC power and communication)

Specifications	Units	Simplify Integration Box
Voltage	VDC	9-18
Current in Tx/Rx mode	mA	12/5
Tx power max	mW	10
Tx/Rx frequency	MHz	868
Protection class		IP54
Storage temperature range	°C	-40 - +60
Operating temperature range	°C	-20 - +60

DIMENSIONS



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