Your test house
3 tests Last test: 2015-10-18
Geolocation
Automatic testing
Quality Assurance Report
Test Results
Pass
CFM
ACH50
Baseline
Compliance Report
Share immediately
Secure Test Data
Accessible from anywhere
Cloud storage
rCloud
v1.1.0.26

June 2016

- rCloud Beta app overview
- How to download the app.
- How to activate your rCloud account.
- Options to connect your DM32 gauge to rCloud.
- How to report bugs and feature requests to Retrotec.
- The costs associated with rCloud and when they will take effect.

Please email your questions, features or issues to:

rCloud@retrotec.com

Please include some basic information like …

- rCloud version.
- What device were you were using.
- Type of WiFi and/or internet connection.
- What were you doing when when the issue occurred.
- Anything else that can help diagnose the issue.

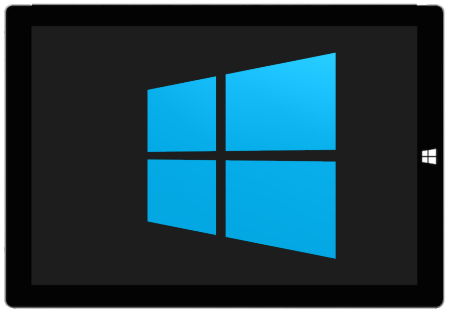
Requirements

DM32
WiFi enabled

+

rCloud
account

+



Windows tablet or PC
Running 8.1 or 10

Windows Phone

Current beta version only works on a Windows Tablet or PC.

Coming soon

DM32
WiFi enabled

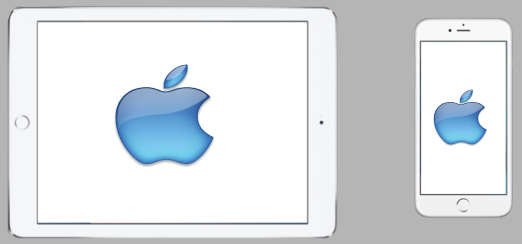
+

rCloud
account

+

Android Tablets and Phones

Late summer 2016



Apple iPads and iPhones

Late summer 2016

Getting started

- Download and install the rCloud app.
- Setup your rCloud account.

Getting started

- Download rCloud.

- Download directly from Microsoft's Store

Select the Store icon and
search for "Retrotec" or "rCloud"

Works on Windows 8.1 and 10

Setting up your rCloud account

- A rCloud account is just a Retrotec.com account with the rCloud features activated.

- Your rCloud account can be activated by . . .

Option 1 - Tapping the "Create new account" in the rCloud app
Note: the device must have an internet connection.

Option 2 - Going to Retrotec.com and signing in to your existing account or registering a new account.

Sign up for a rCloud account in the app

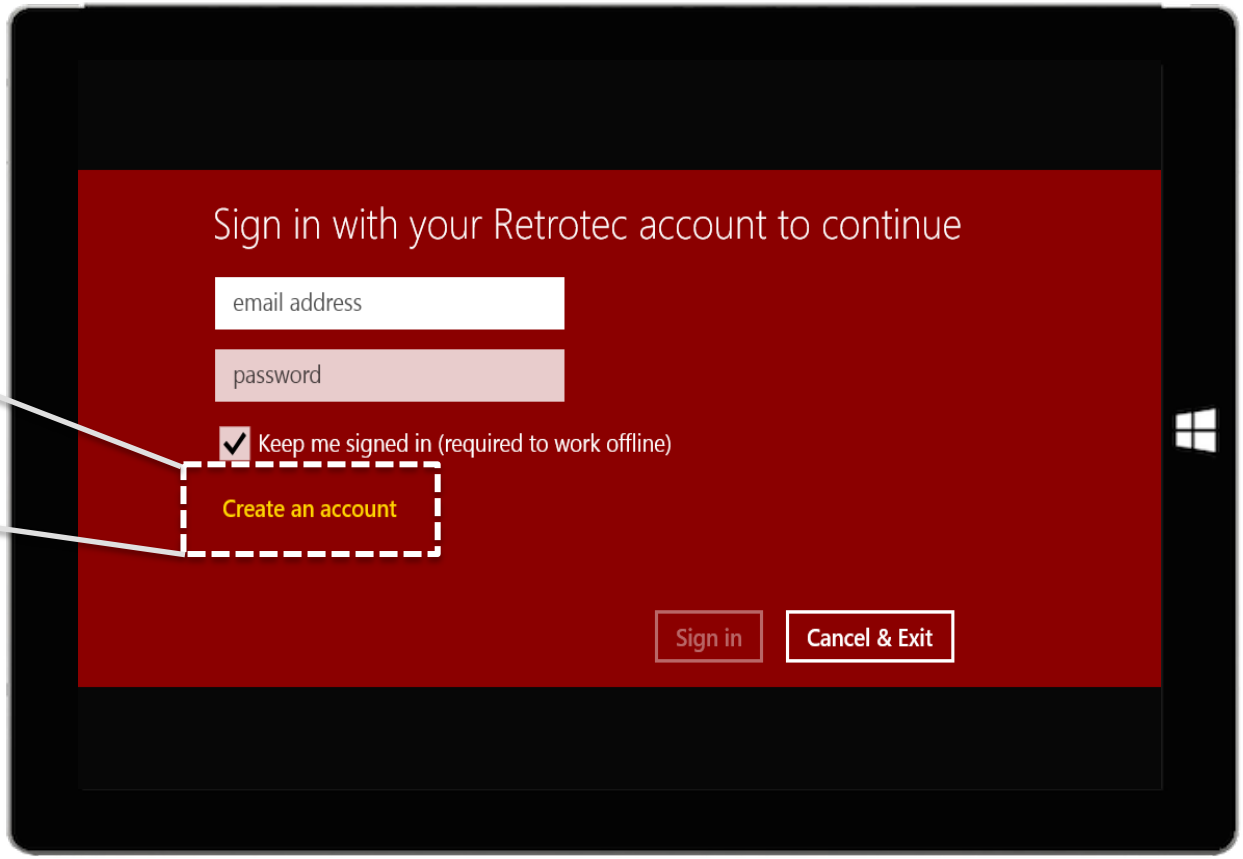
To create an account the device must be connected to the internet.

Option 1

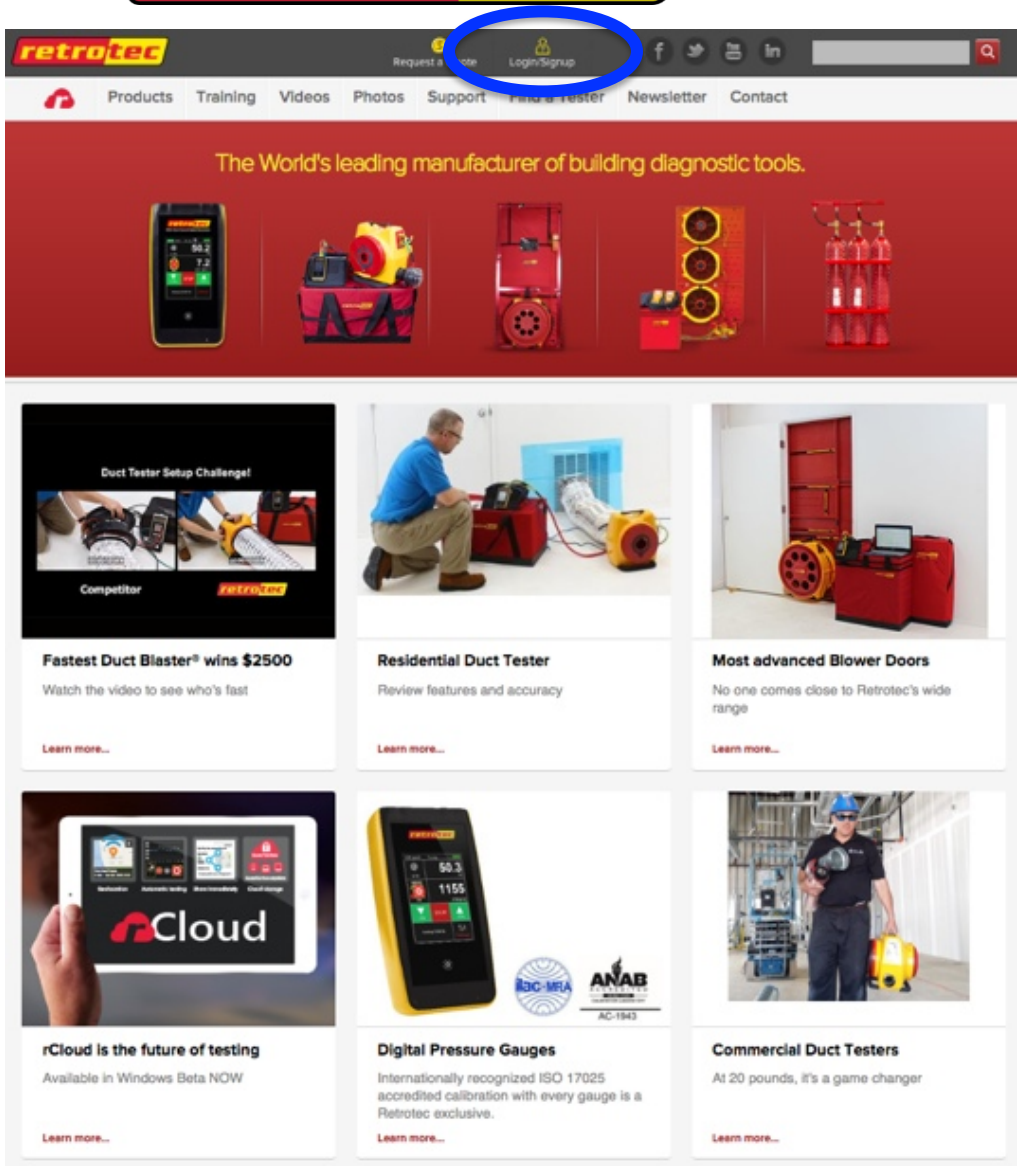
Select “Create an account”

Create an account

This will open the browser on your device and take you to Retrotec.com Login/Signup page.



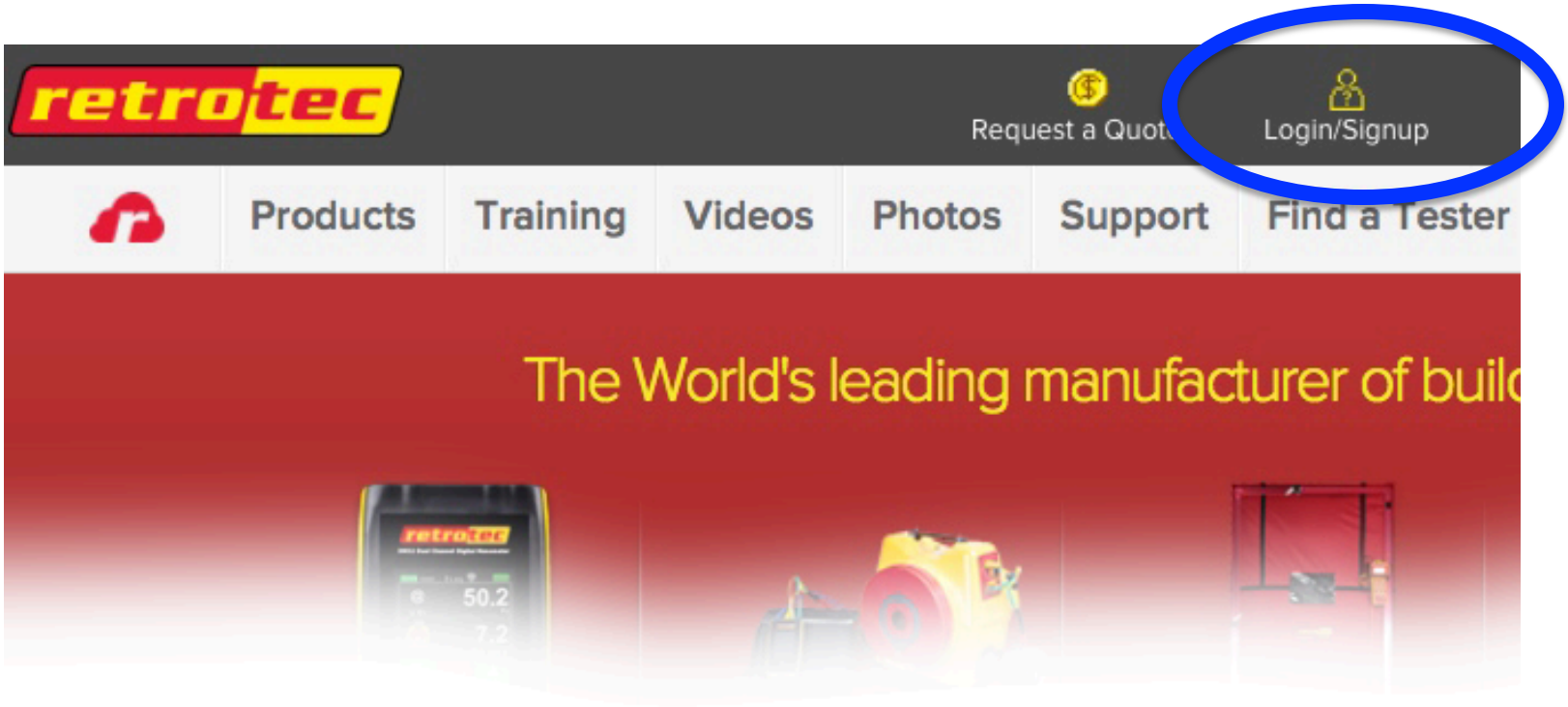
retrotec.com



Sign up for a rCloud account at Retrotec.com

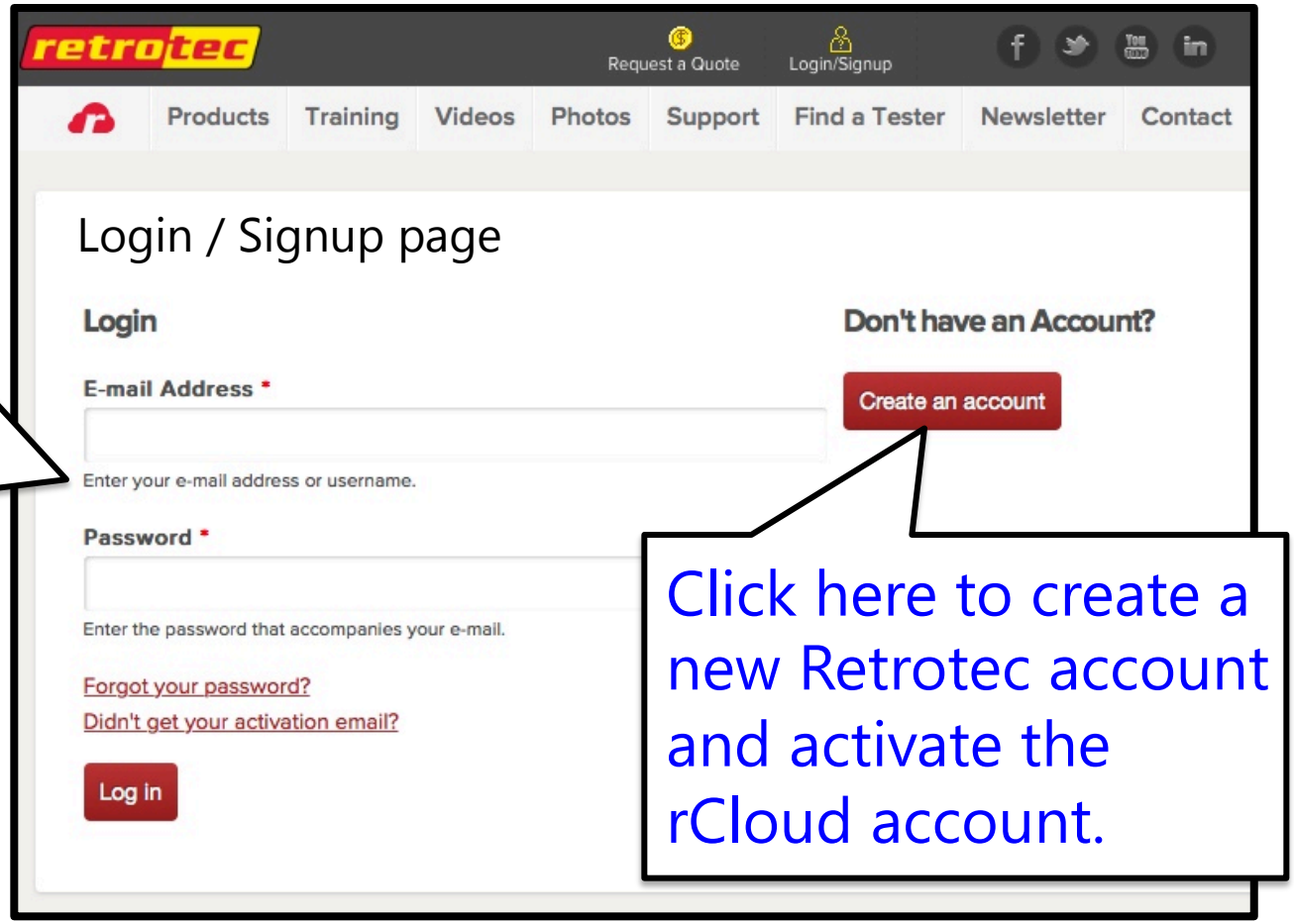
Option 2

Select “Login / Signup”



Sign up for a rCloud account at Retrotec.com

Note: Option 1, from the rCloud app goes to this same page.

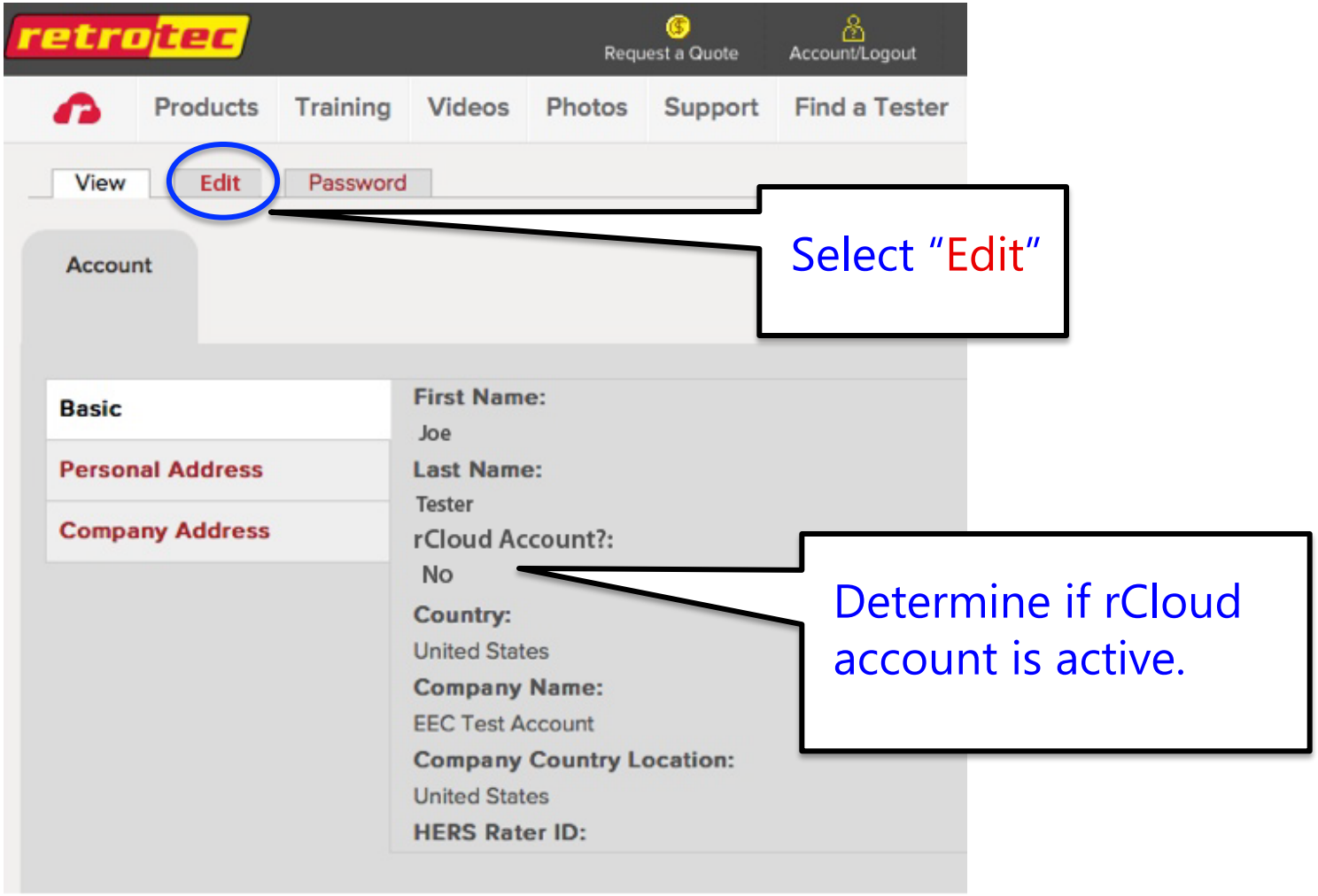


Existing Retrotec users, sign in here to activate your rCloud account.

Click here to create a new Retrotec account and activate the rCloud account.

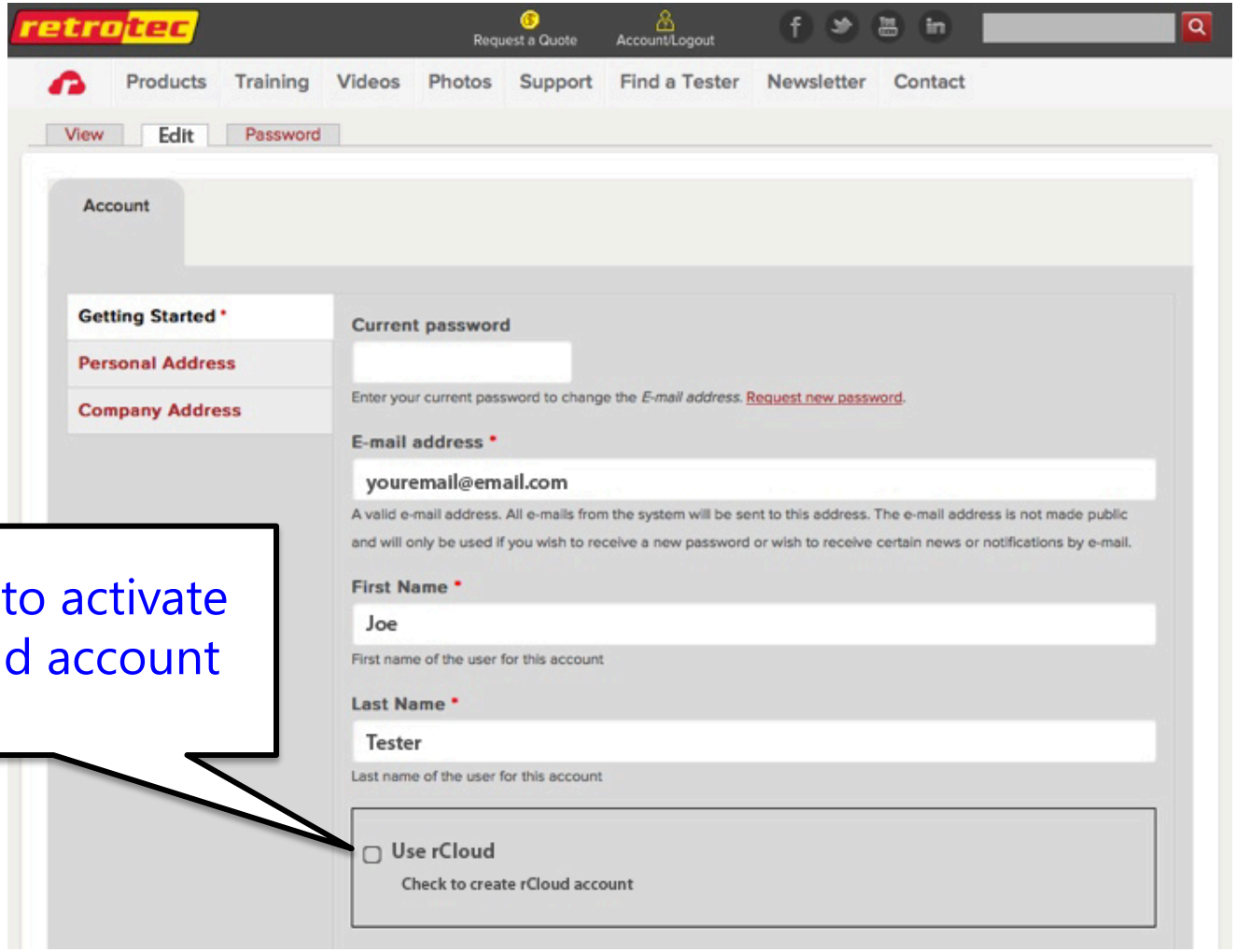
Sign up for a rCloud account at Retrotec.com

Existing Retrotec users.



Sign up for a rCloud account at Retrotec.com

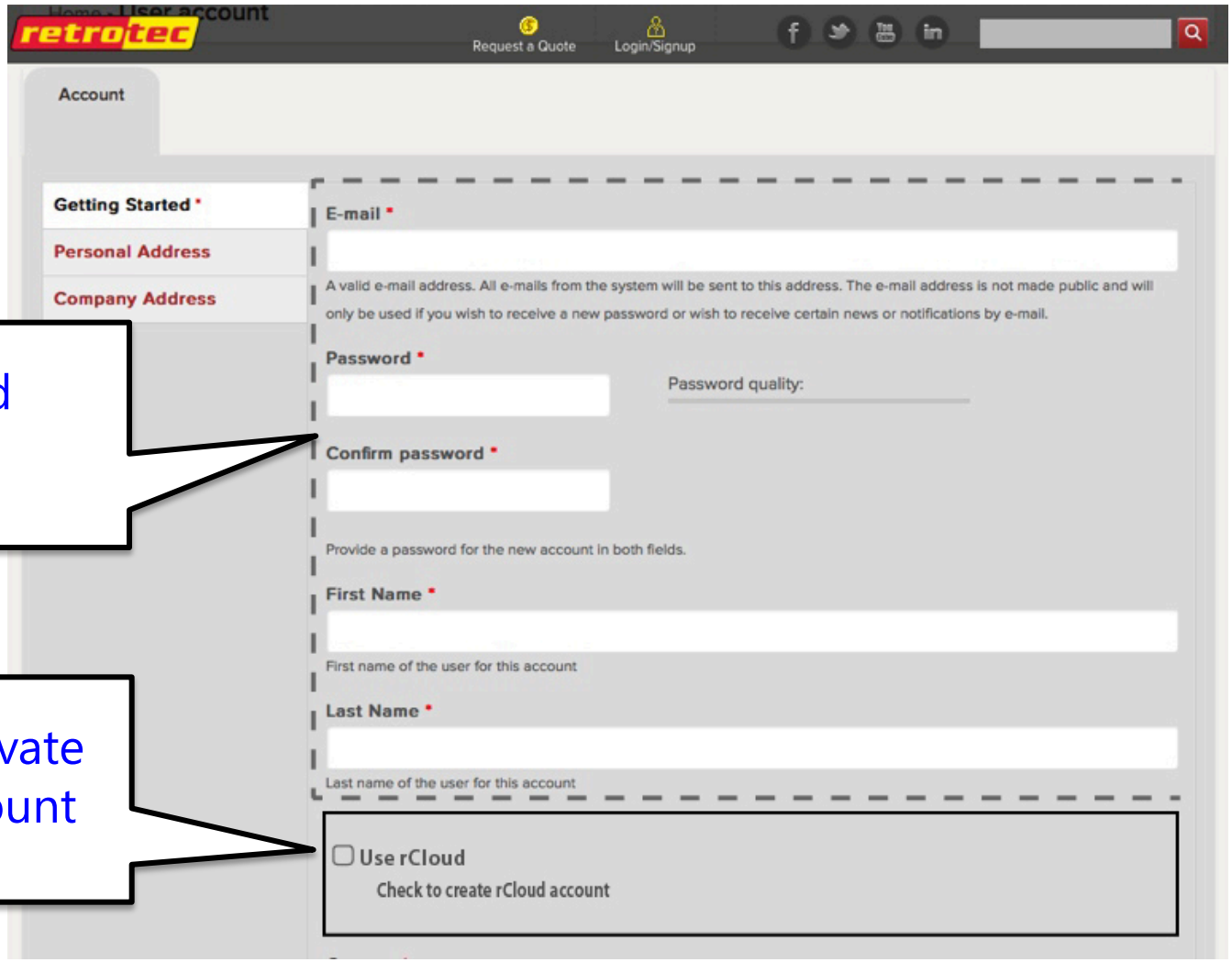
Existing Retrotec users, activate rCloud.



Click here to activate your rCloud account

Sign up for a rCloud account at Retrotec.com

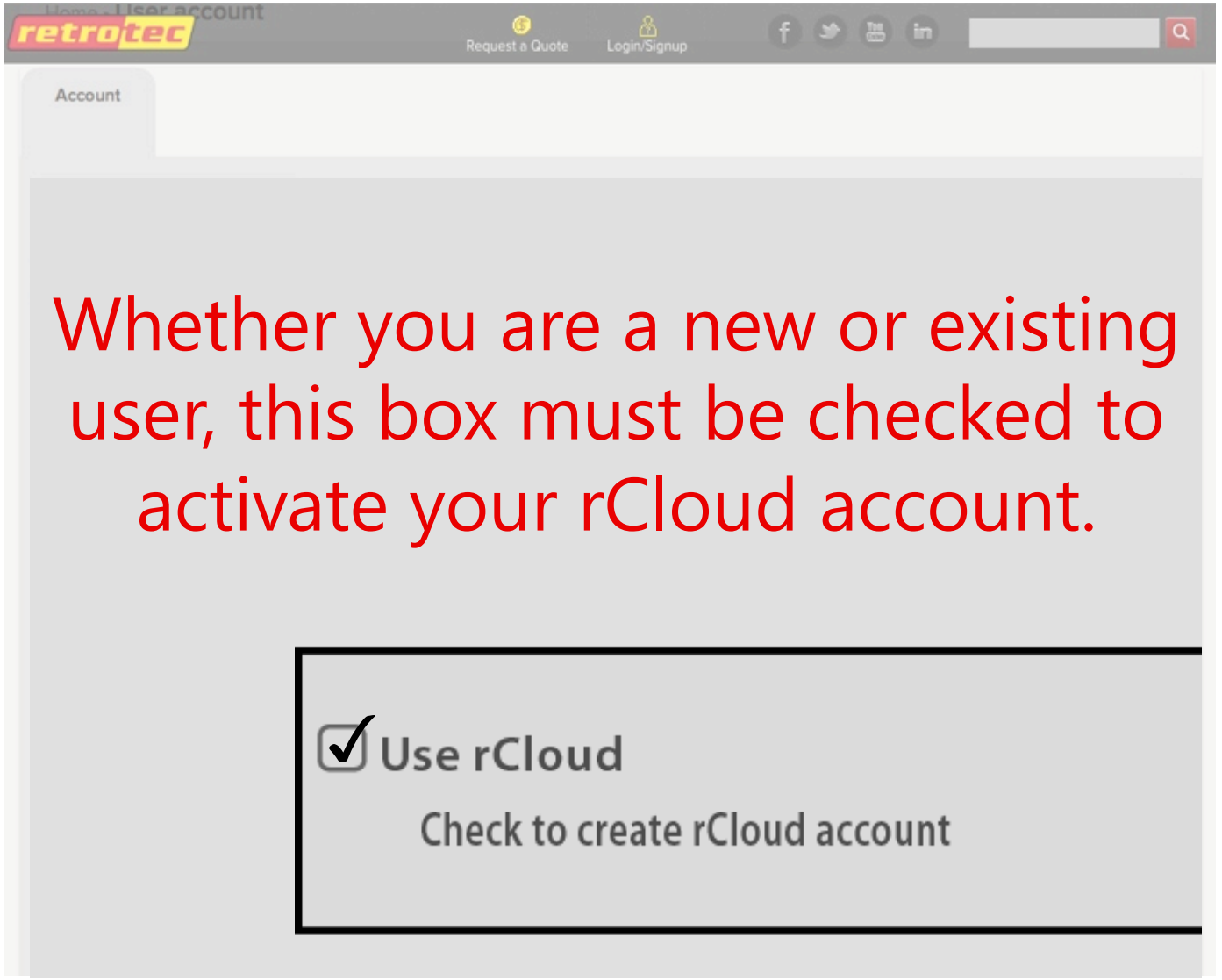
Creating a New Retrotec and rCloud acount .



Complete required sections

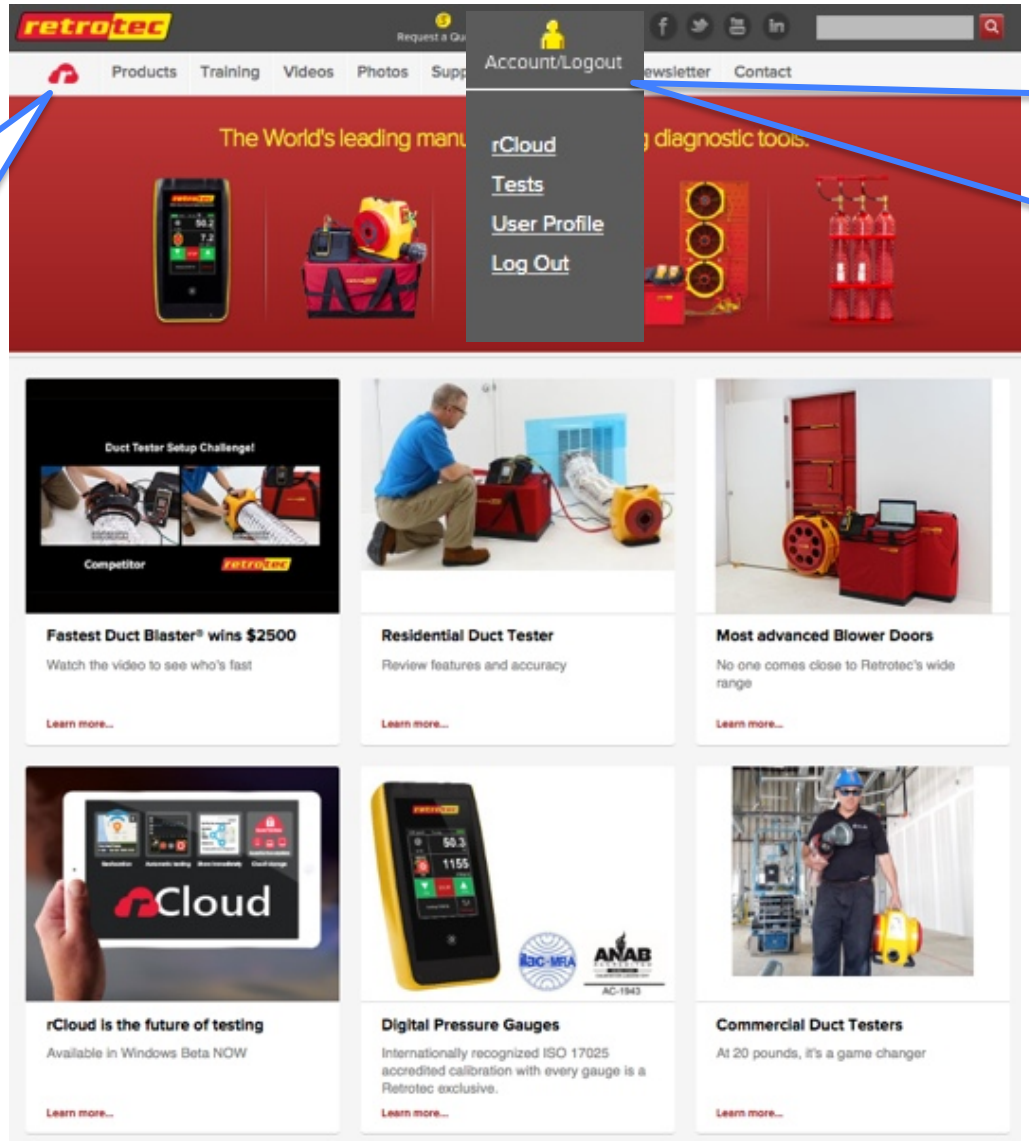
Click here to activate your rCloud account

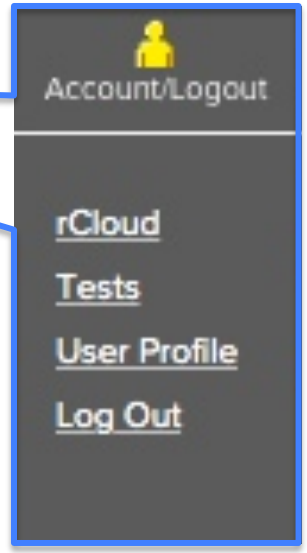
Activating your rCloud account.



When your logged in…

Tap here to access your rCloud account





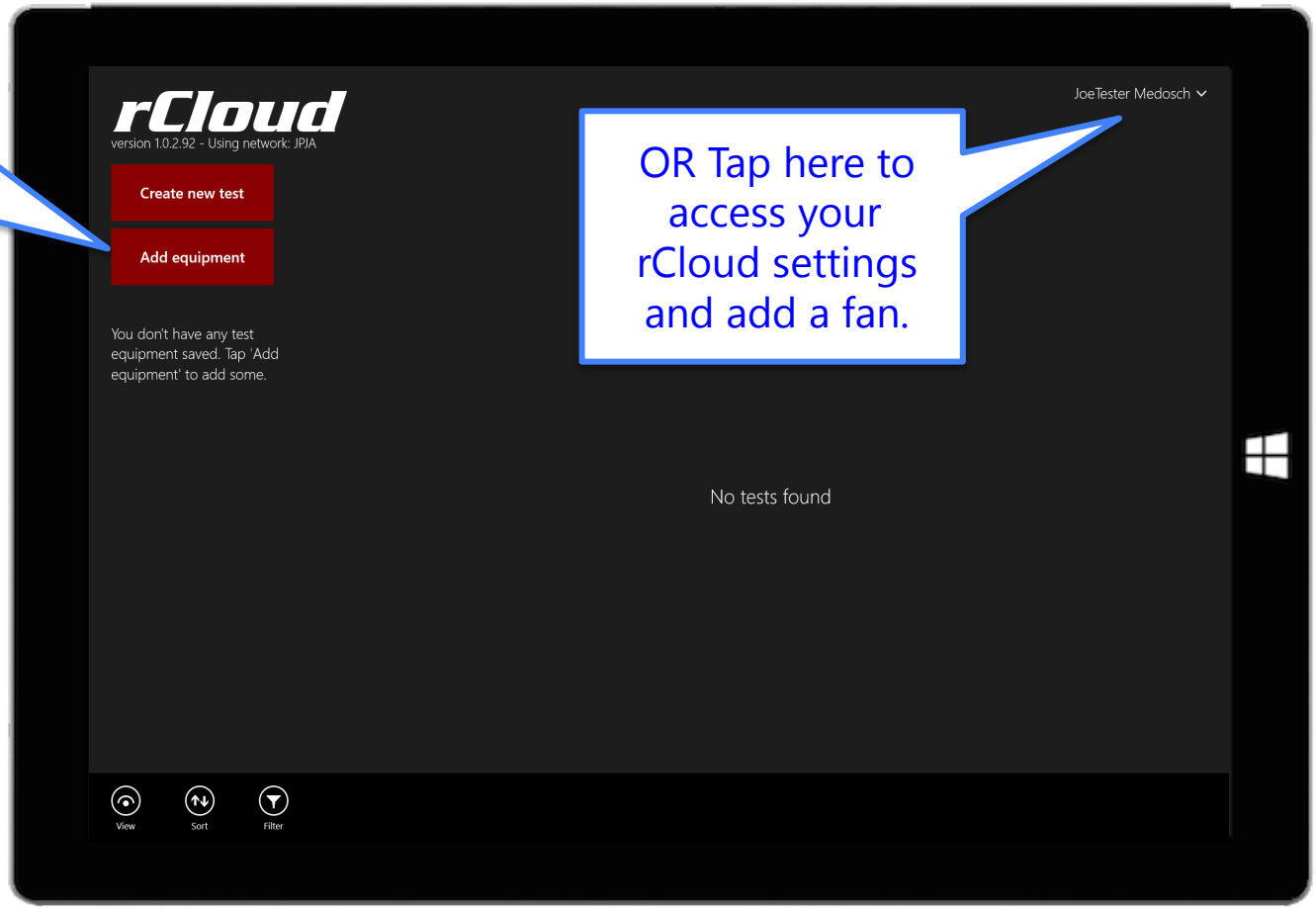
Overview & features

First time opening rCloud.

Home page.

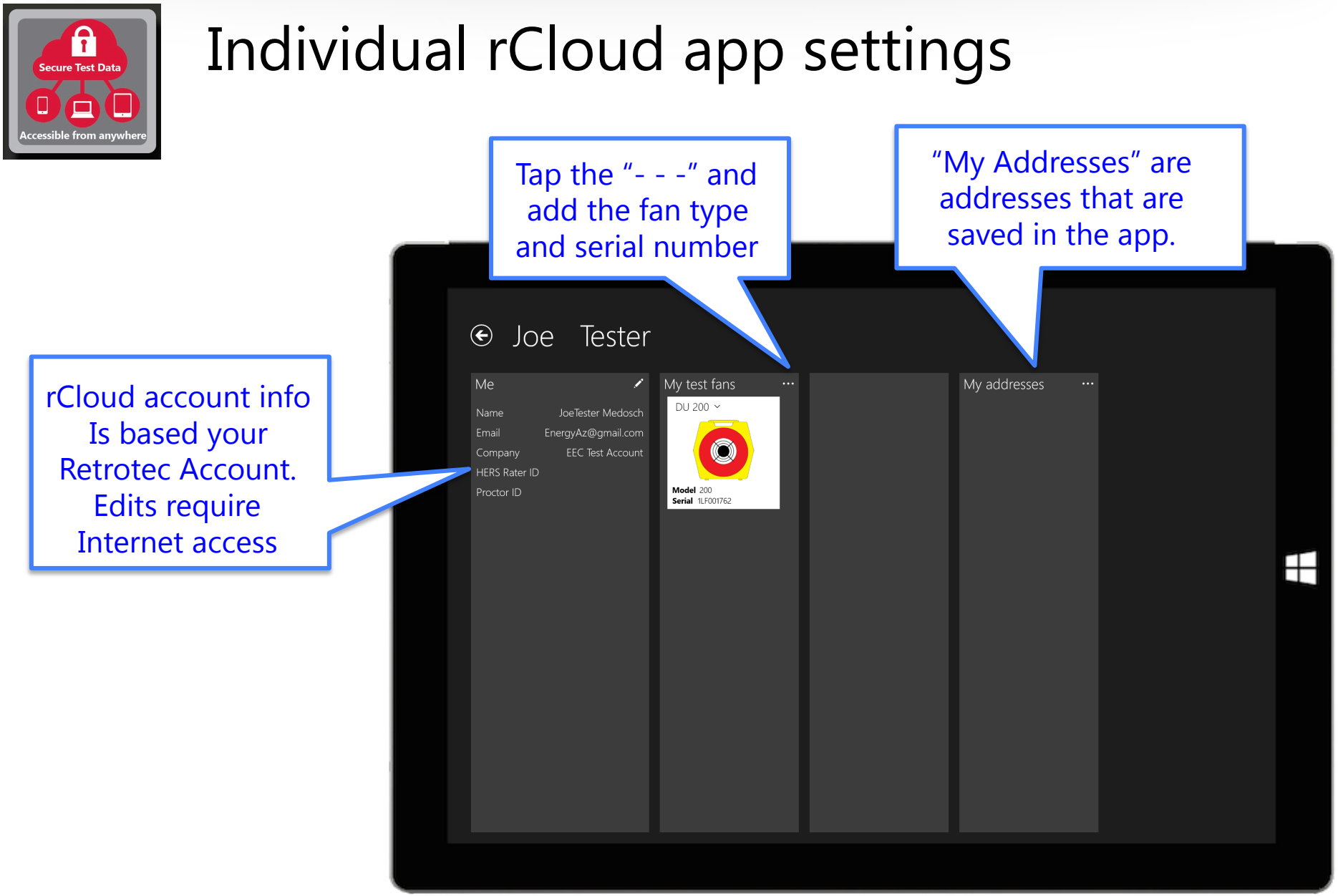
Tap “Add equipment” to add fans

Add equipment



OR Tap here to access your rCloud settings and add a fan.

Individual rCloud app settings



Home screen overview

Home page.

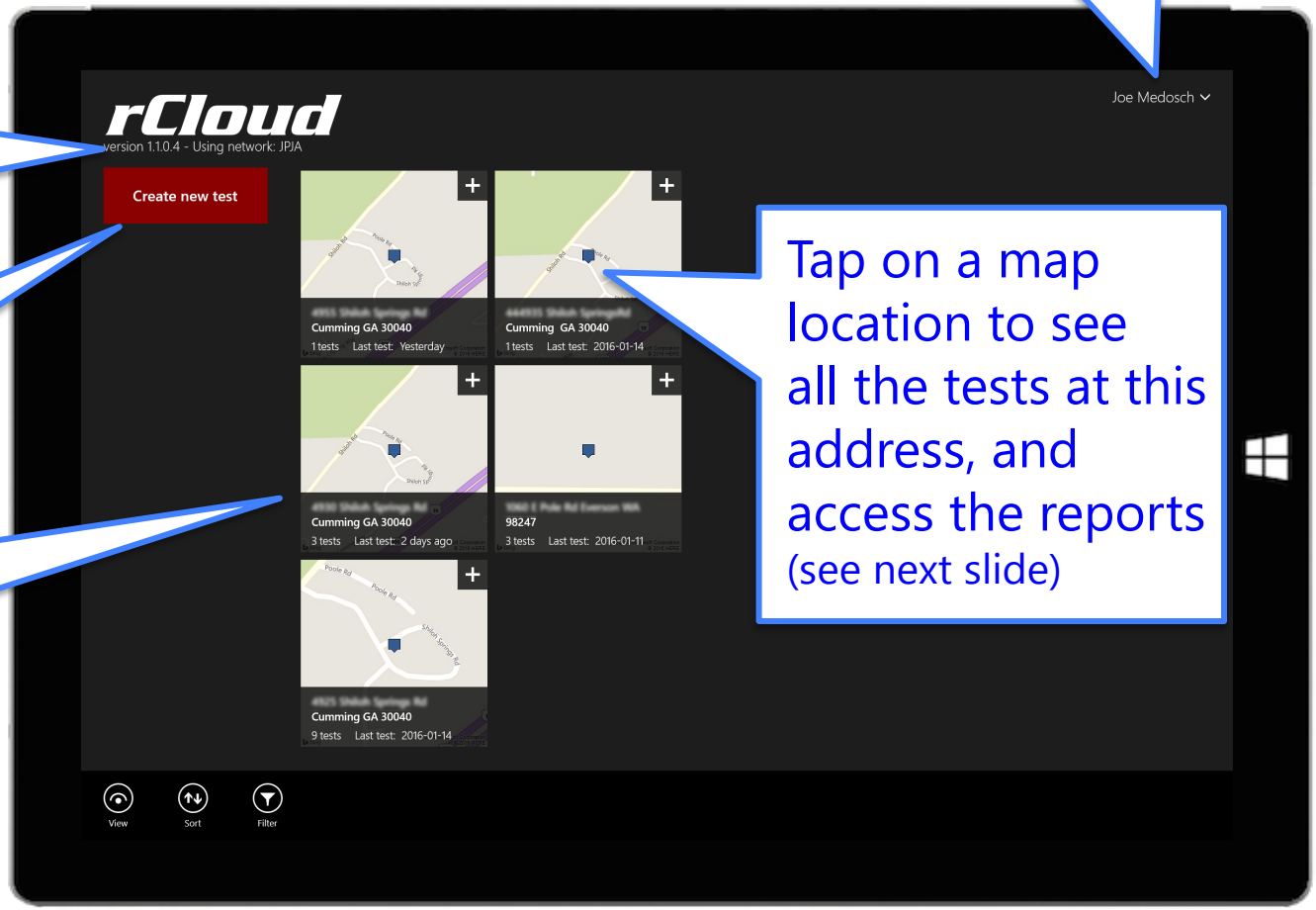
User account tab

Displays internet connection OR "Off Line"

Tap to create a New test location

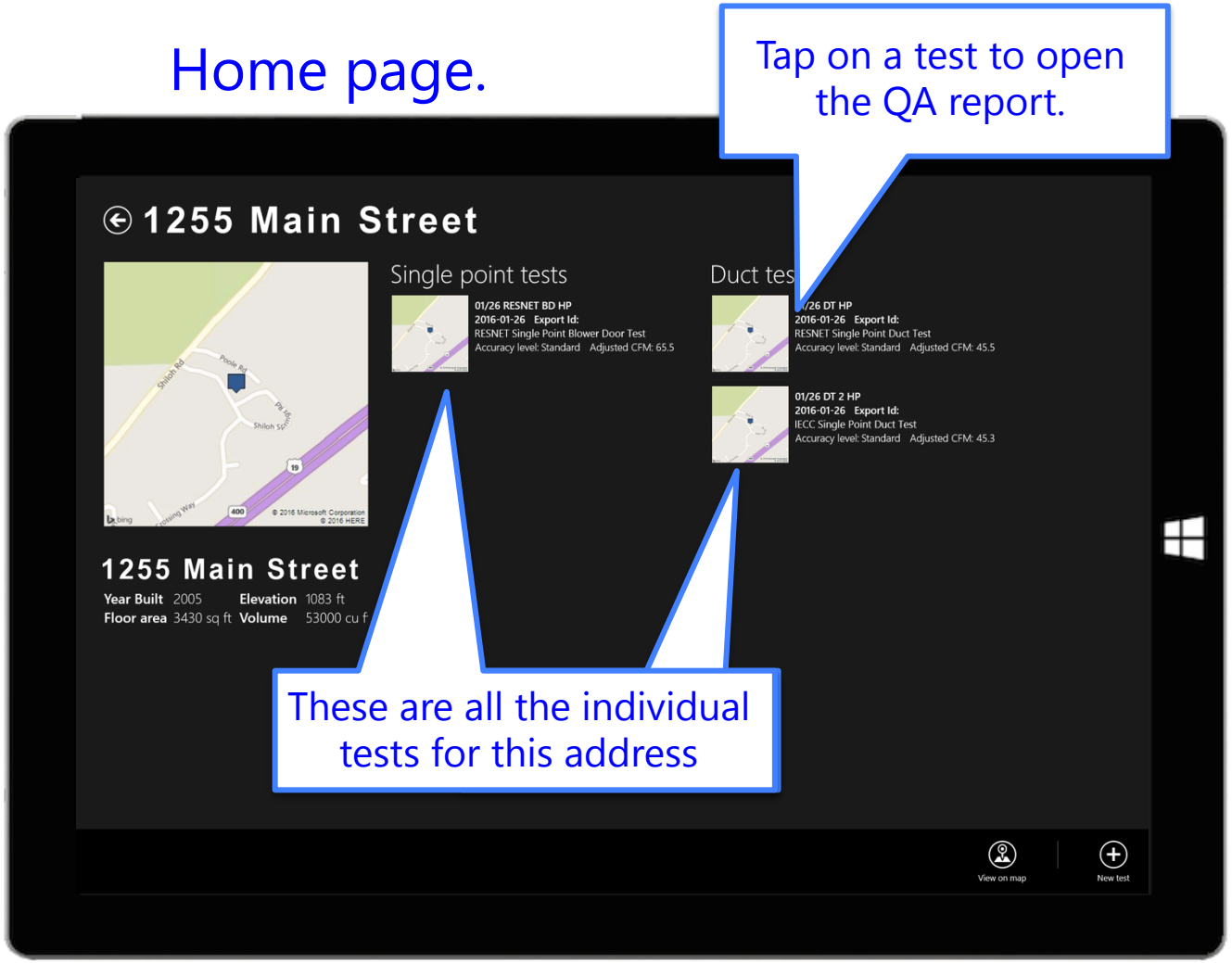
Existing test locations and number of tests

Tap on a map location to see all the tests at this address, and access the reports (see next slide)



Displaying all tests for this location

Home page.



Create new location or add a new test.

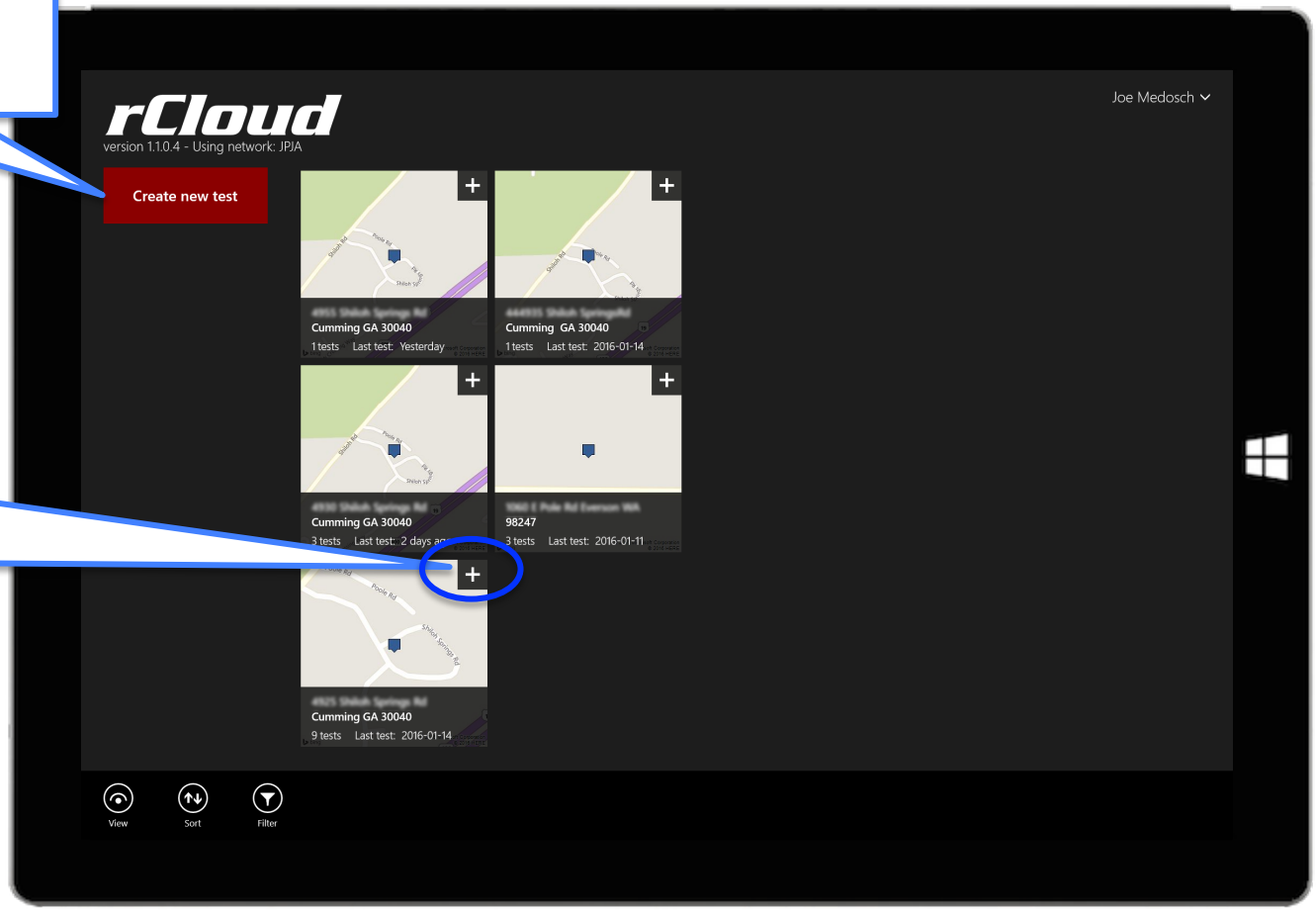
Tap to create new test for new test location

Create new test

OR

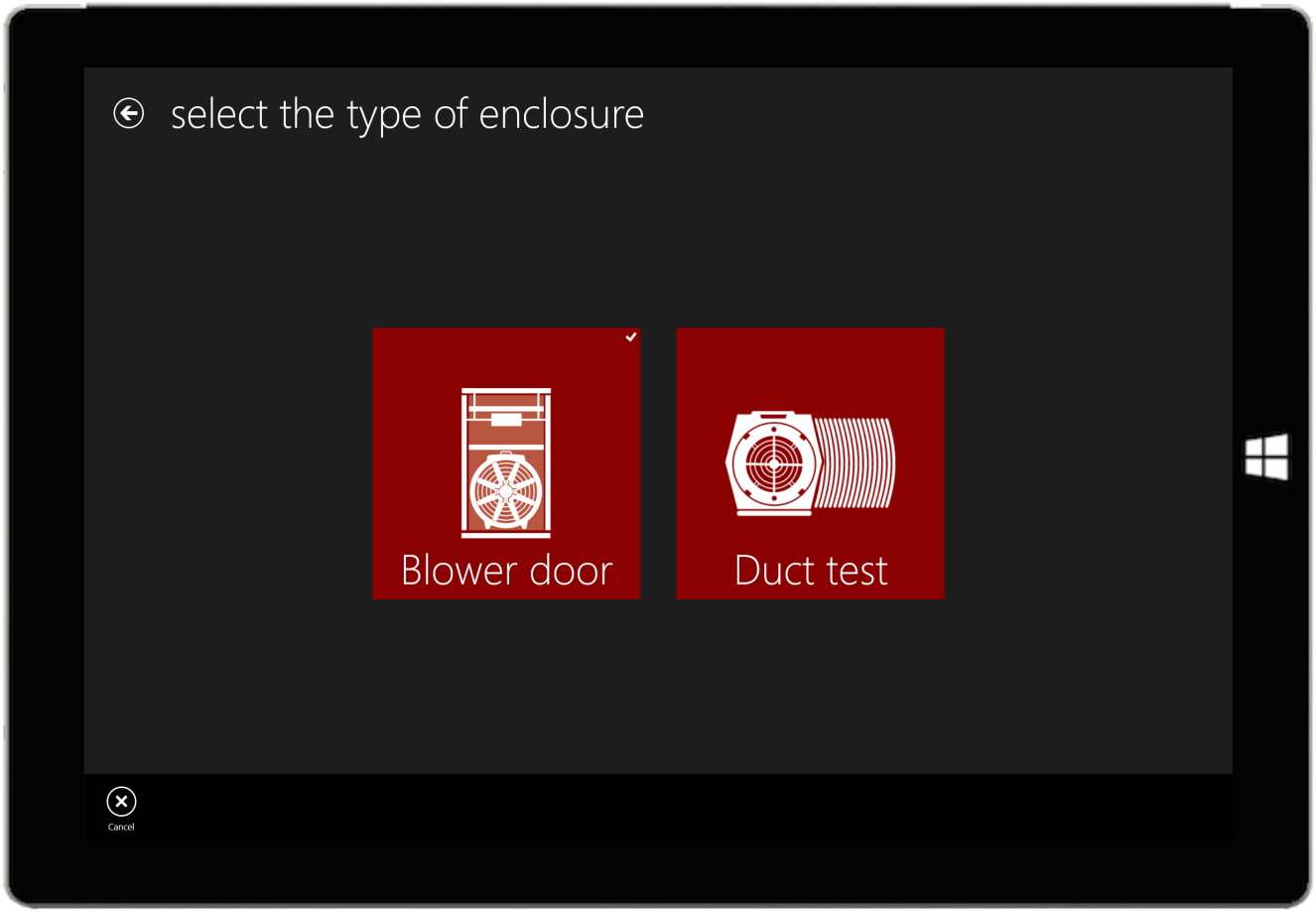
Tap "+" to perform a test at an existing location

Home page.



Start with selecting a type of test

or



Select the testing standard

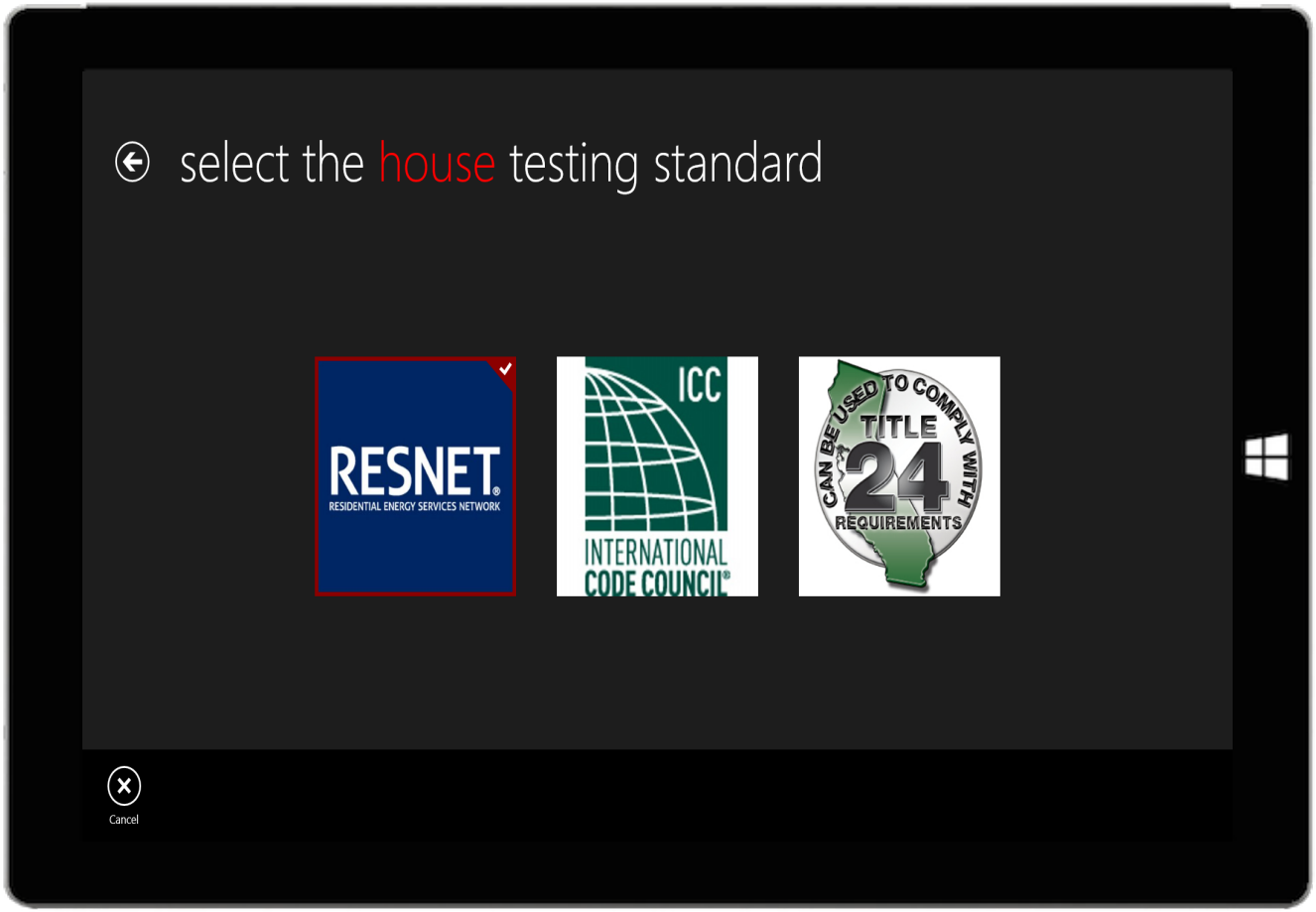
RESNET
RESIDENTIAL ENERGY SERVICES NETWORK

or

ICC
INTERNATIONAL CODE COUNCIL

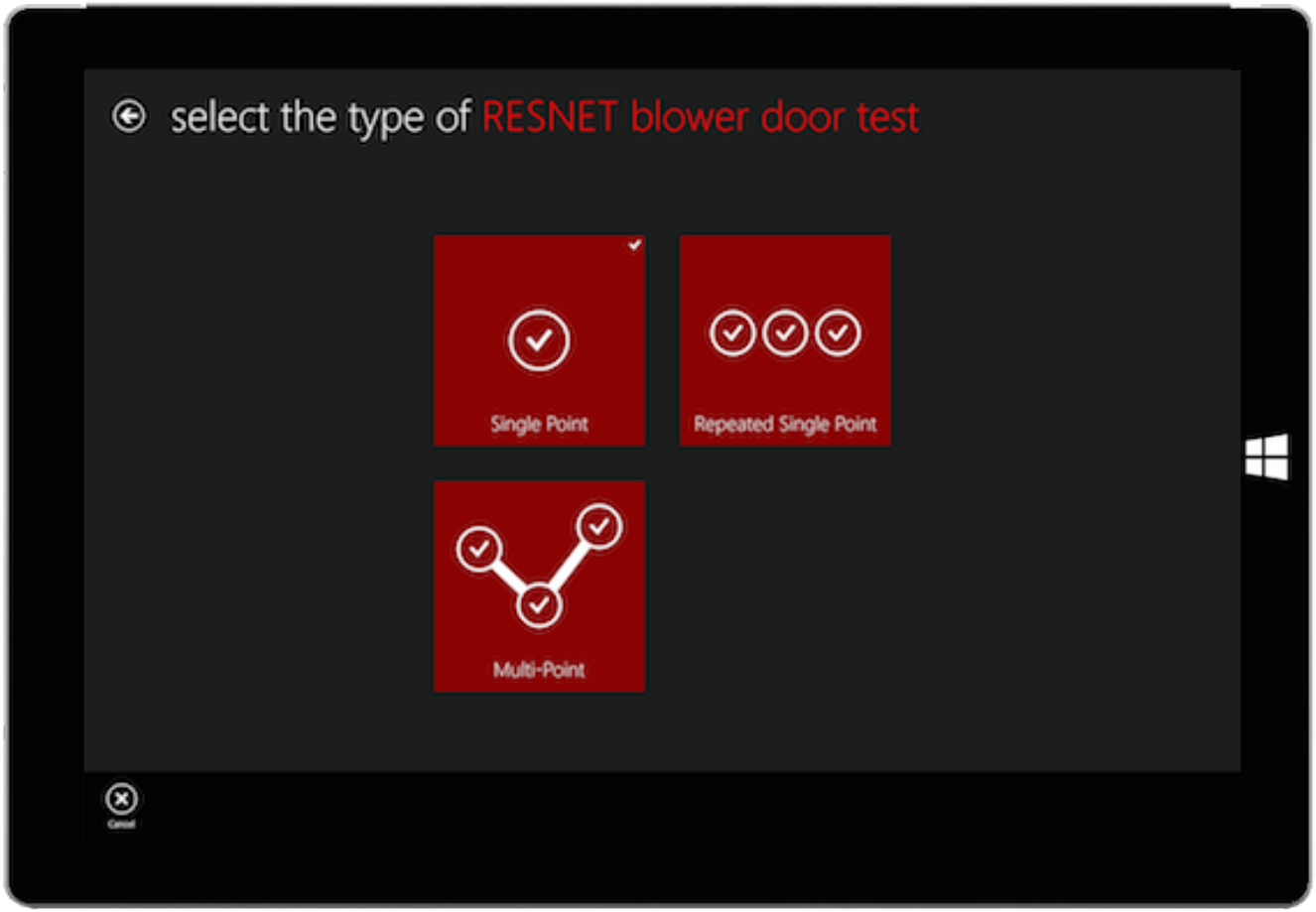
or

CAN BE USED TO COMPLY WITH TITLE 24 REQUIREMENTS



Select the type of test for that standard

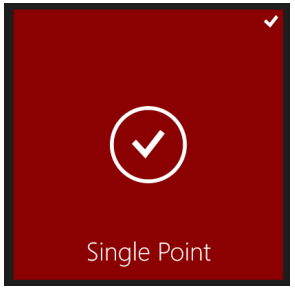
RESNET
RESIDENTIAL ENERGY SERVICES NETWORK



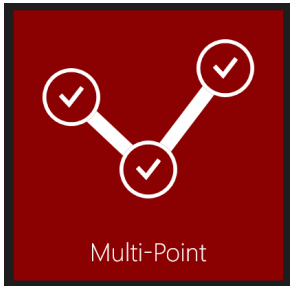
Example of the RESNET blower door test options

Individual blower door test options

RESNET
RESIDENTIAL ENERGY SERVICES NETWORK



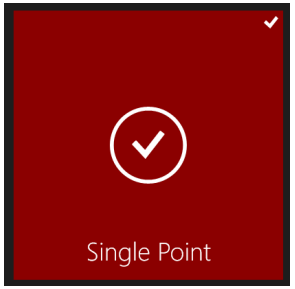
Single Point



Multi-Point

Repeated
Single point

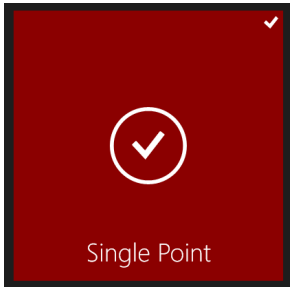
ICC
INTERNATIONAL
CODE COUNCIL



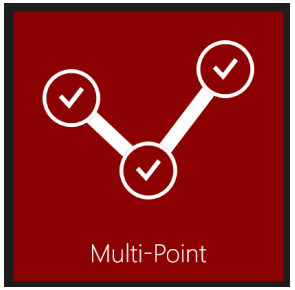
Single Point

Multi-Point

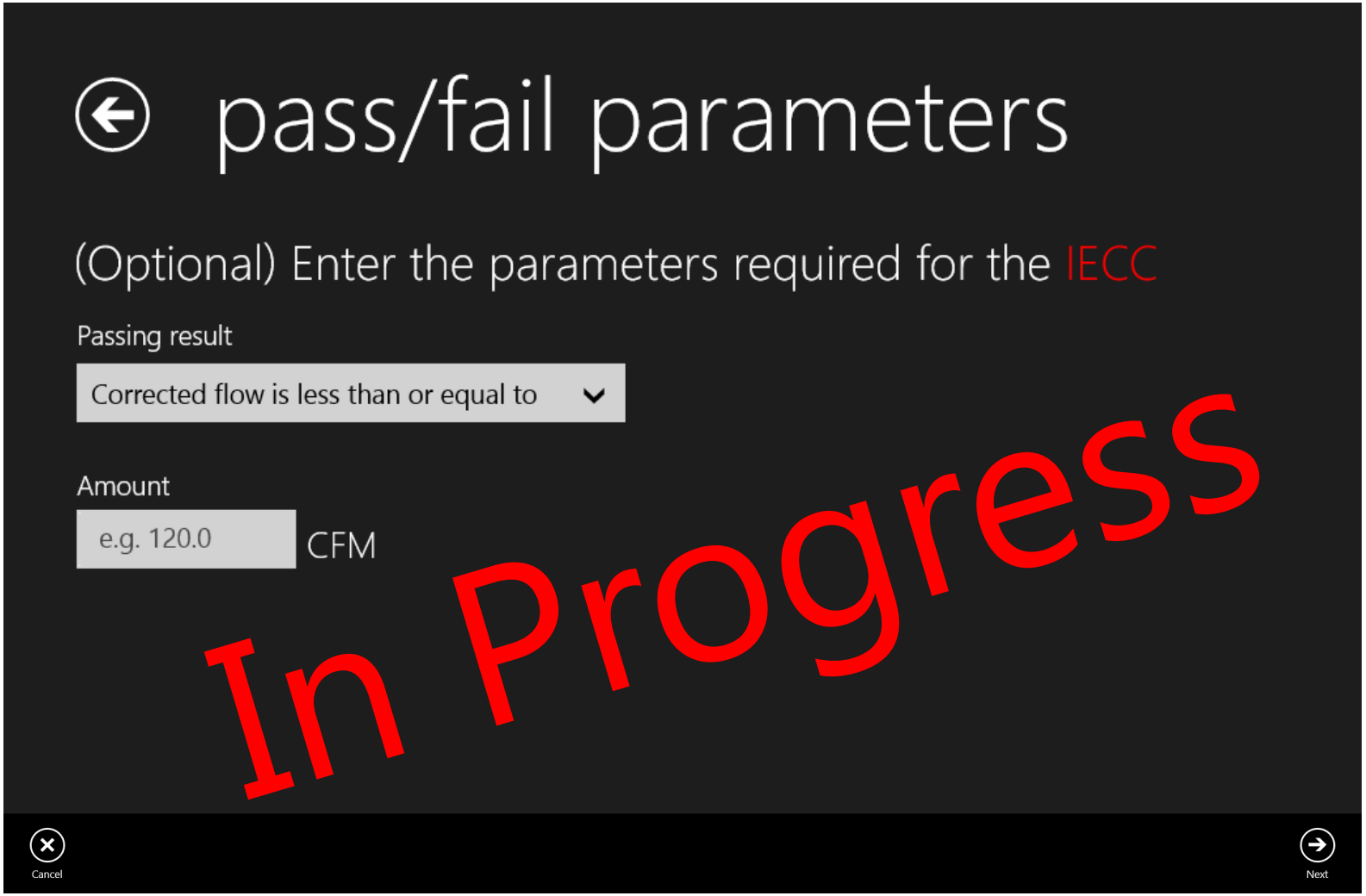
CAN BE USED TO COMPLY WITH TITLE 24 REQUIREMENTS

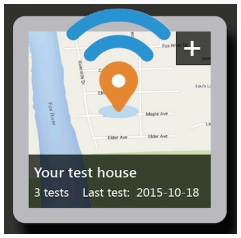


Single Point

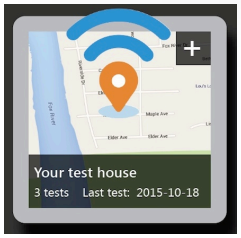


Multi-Point


pass/fail parameters
(Optional) Enter the parameters required for the IECC
Passing result
Corrected flow is less than or equal to
Amount
e.g. 120.0
CFM
In Progress
Cancel
Next

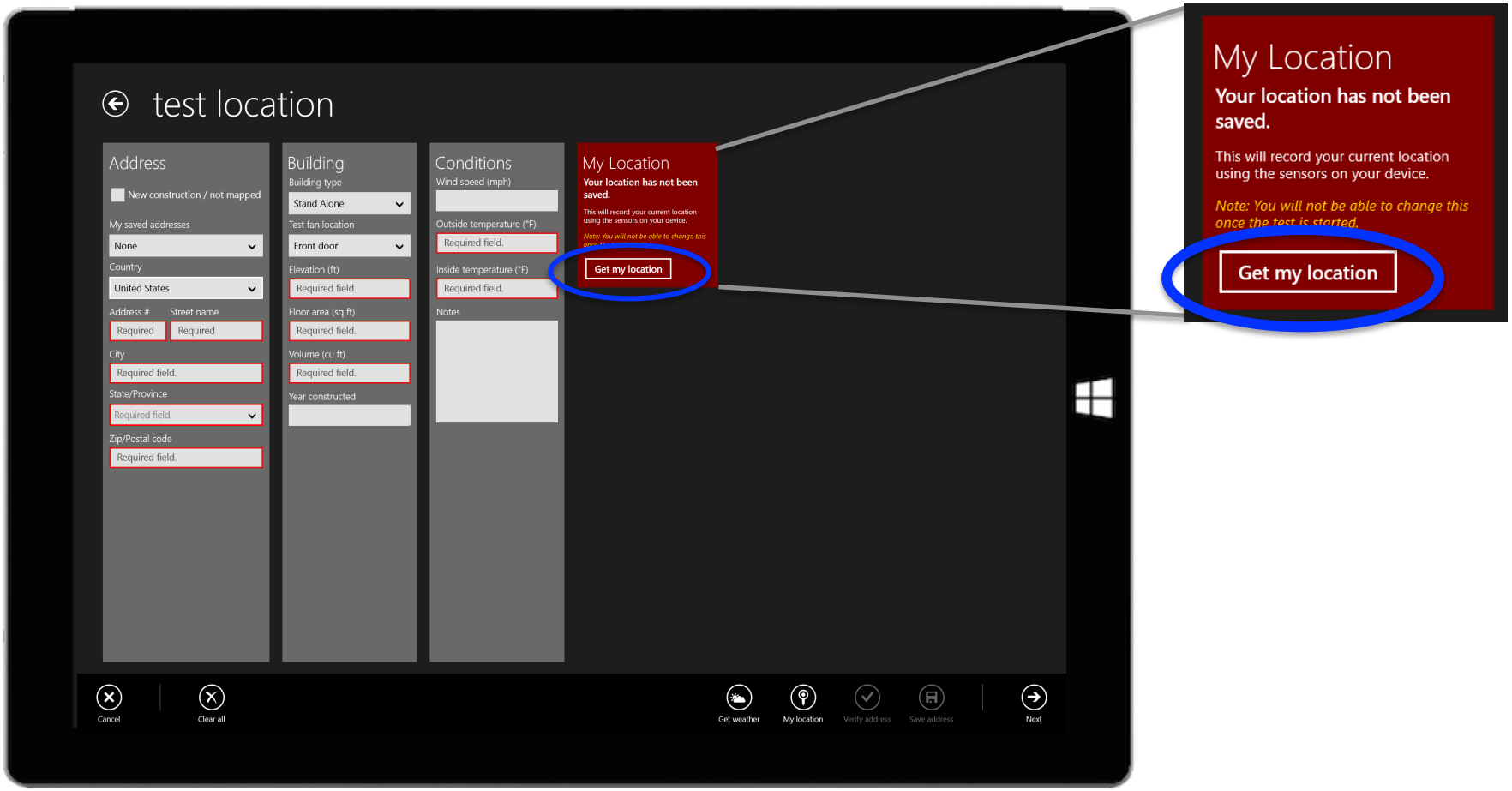


Enter test location OR Geolocate

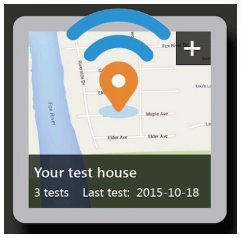


Enter test location OR Geolocate

Tap “Get my location” to Geolocate your location



Geolocation feature may be limited by the device.

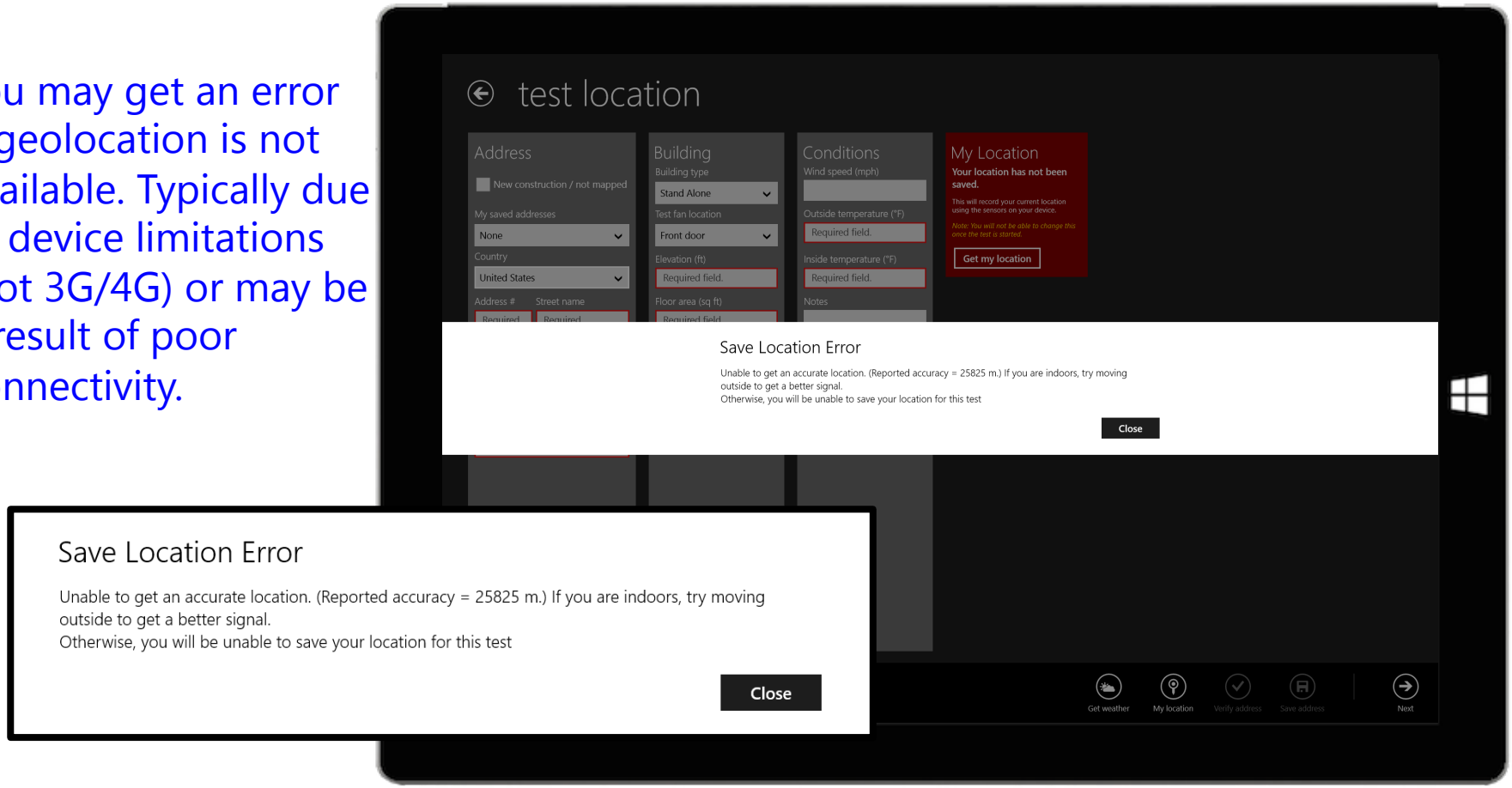


ERROR - Geolocation Service Unavailable

Get my location

Note: Devices that are not 3G/4G enabled my not be able to provide a geolocation.

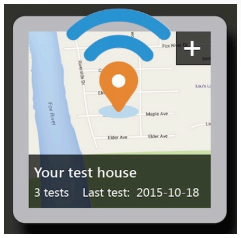
You may get an error if geolocation is not available. Typically due to device limitations (not 3G/4G) or may be a result of poor connectivity.



Save Location Error

Unable to get an accurate location. (Reported accuracy = 25825 m.) If you are indoors, try moving outside to get a better signal.
Otherwise, you will be unable to save your location for this test

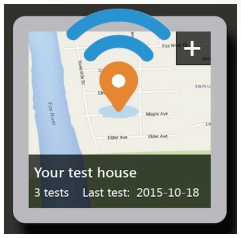
Close



Geolocate and confirm test location

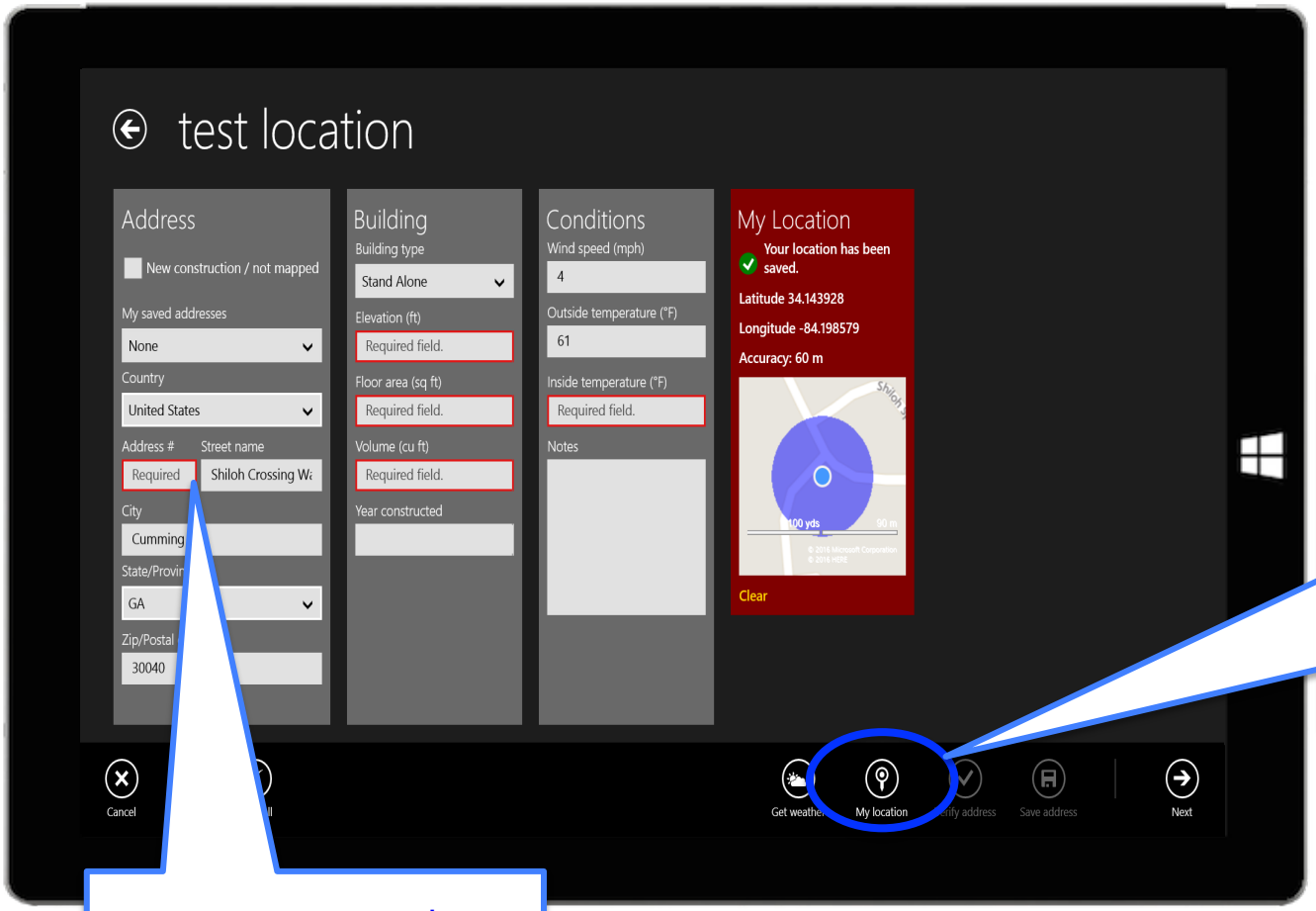
Nearest weather station data is entered

Street, City, State and zip code are entered



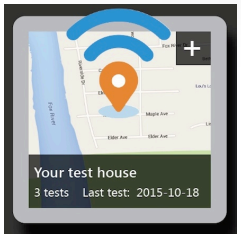
"My Location" accesses Zillow and similar sites.

"My Location" works independently of Geolocation.
It locates the address on a map.



Tap the "My Location" icon to access Zillow and populate additional information.

Enter street numbers and confirm street



"My Location" accesses Zillow and similar sites.

Must enter Volume and Indoor Temperature

Verified info Clear

PROVIDED BY Zillow

Address
4955 Shiloh Springs Rd
Cumming GA 30040
United States

Elevation (ft)
1089

Floor Area (sq ft)
3424

Year constructed
2005

Wind speed (mph)
4

Outside temperature (°F)
61

test location

Verified info Clear
PROVIDED BY Zillow
Address
4955 Shiloh Springs Rd
Cumming GA 30040
United States
Elevation (ft)
1089
Floor Area (sq ft)
3424
Year constructed
2005
Wind speed (mph)
4
Outside temperature (°F)
61

Building
Building type
Stand Alone
Volume (cu ft)
Required field.

Conditions
Outside temperature (°F)
Required field.
Notes

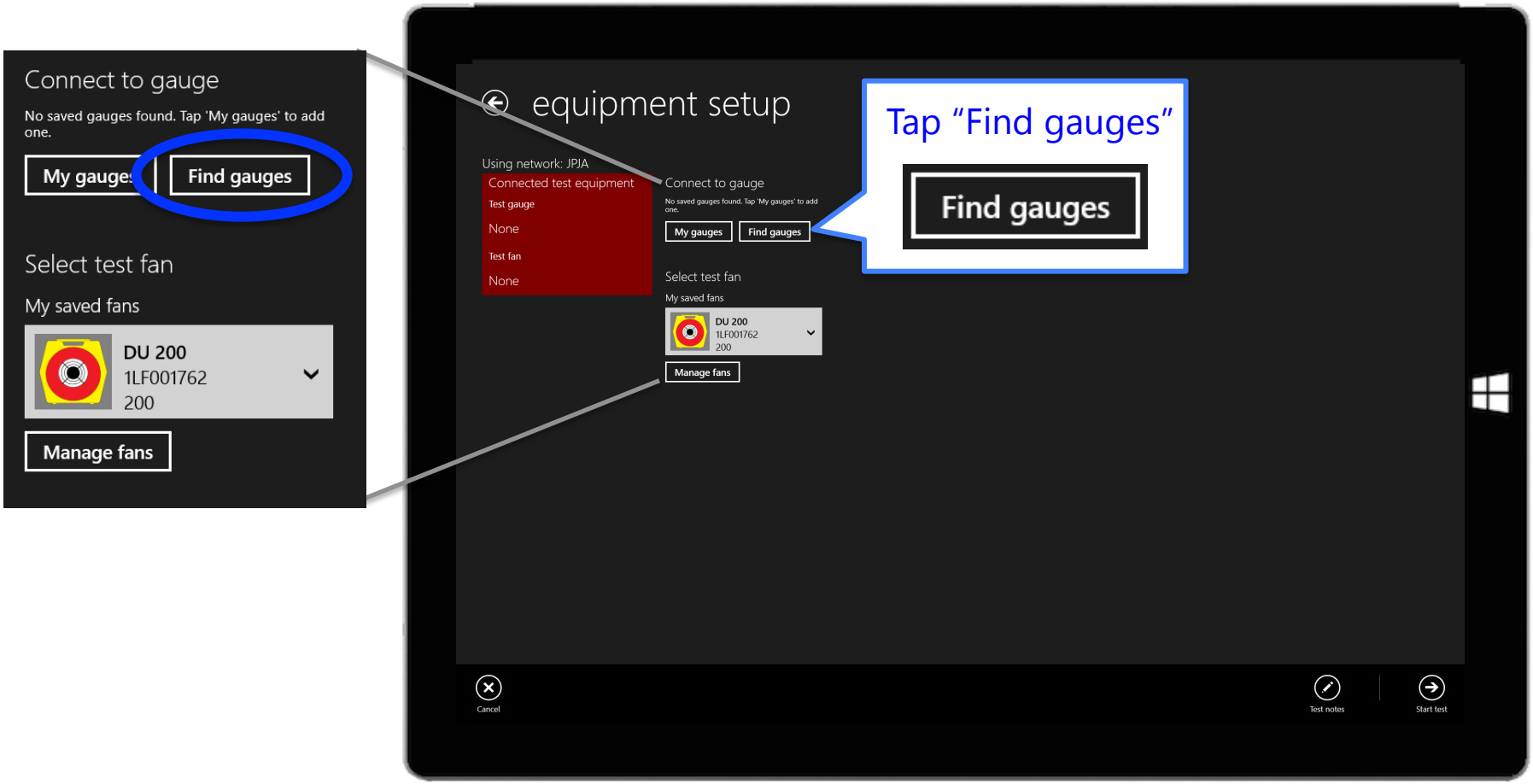
My Location
Your location has been saved.
Latitude 34.143917
Longitude -84.198581
Distance from address: 64 m (±56 m)
Clear

Get weather
Save address
Next

Elevation and additional information was automatically populated

Connect the DM32 WiFi gauge

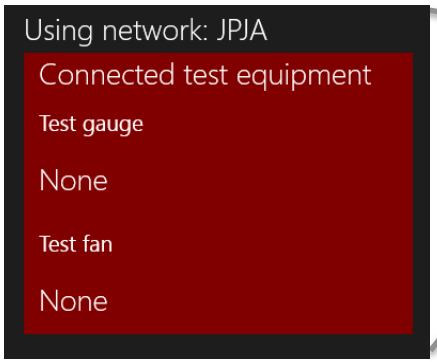
See section on WiFi source and connecting the DM32

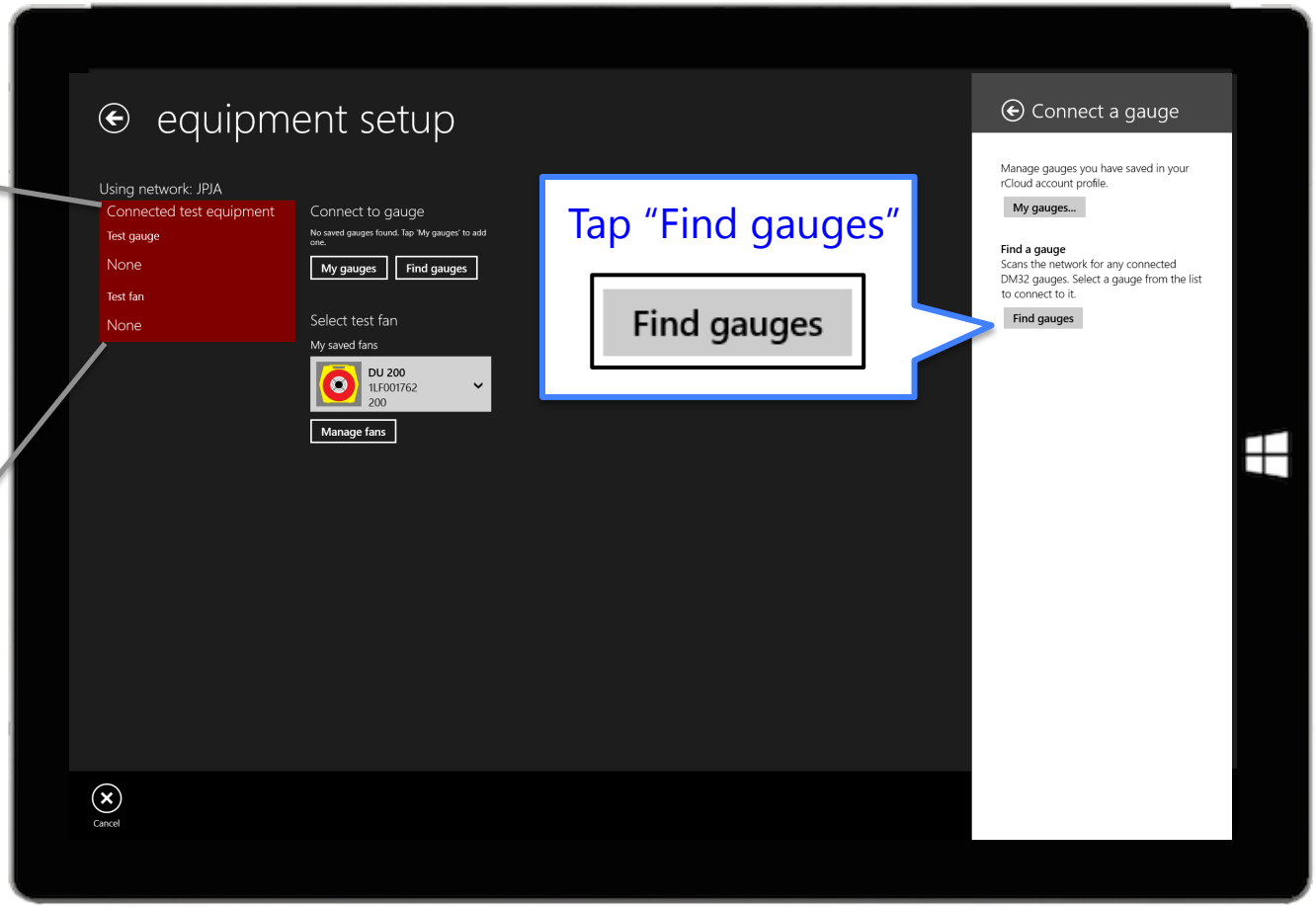


Connect the DM32 WiFi gauge

See section on WiFi source and connecting the DM32

No gauge or
fan connected





Connect the DM32 WiFi gauge

Using network: JPJA

Connected test equipment

Test gauge

403278
192.168.0.137
Valid until 4/21/2020

Test fan

1LF001762
200
Mid

Shows the gauge and fan that are connected to rCloud

Select a fan and range

My saved fans

DU 200
1LF001762
200

equipment setup

Using network: JPJA

Connected test equipment

Test gauge

403278
192.168.0.137
Valid until 4/21/2020

Test fan

1LF001762
200
Mid

Connect to gauge

No saved gauges found. Tap 'My gauges' to add one.

My gauges | Find gauges

Select test fan

My saved fans

DU 200
1LF001762
200

Manage fans

Open | Mid | Low

Cancel

Gauge is found and connected

Select gauge below to connect

403278
192.168.0.137
Valid until 4/21/2020

Connect a gauge

Manage gauges you have saved in your rCloud account profile.

My gauges...

Find a gauge

Scans the network for any connected DM32 gauges. Select a gauge from the list to connect to it.

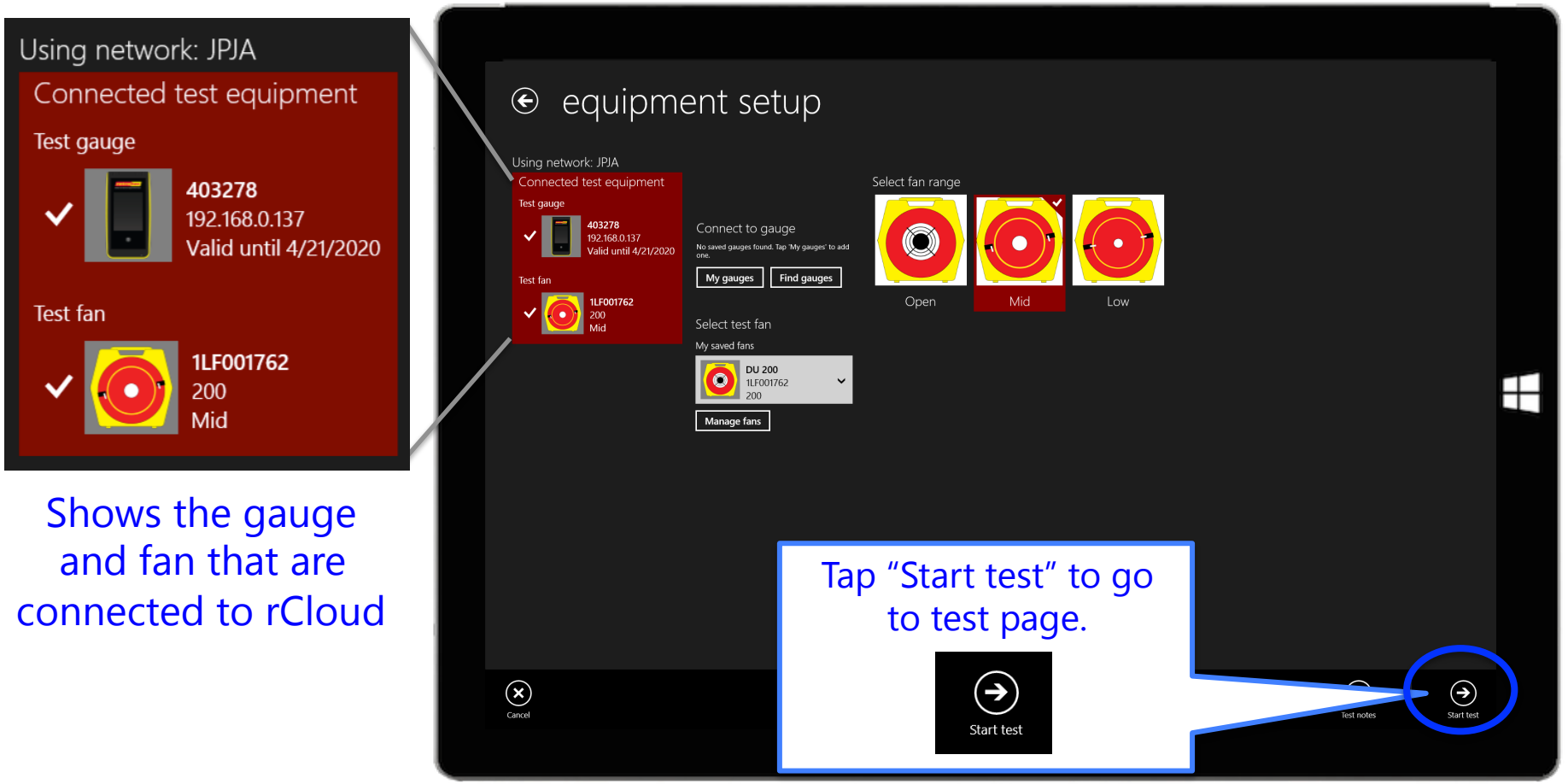
Find gauges

Select gauge below to connect

403278
192.168.0.137
Valid until 4/21/2020

Save to My Gauges

Connected to gauge and ready to test!



Shows the gauge and fan that are connected to rCloud

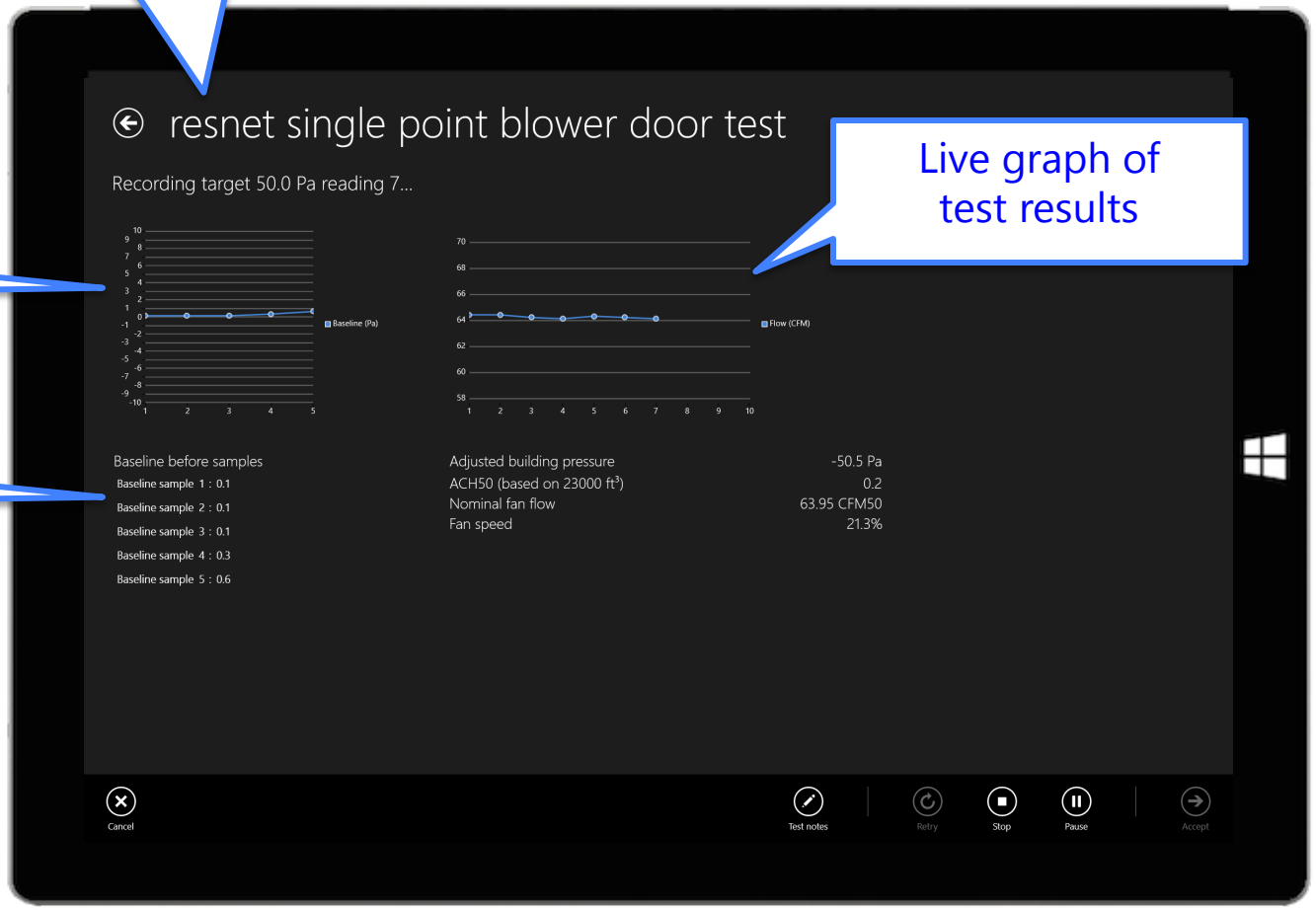
Active blower door test

Type of test

Baseline live graph

Baseline results

Live graph of test results

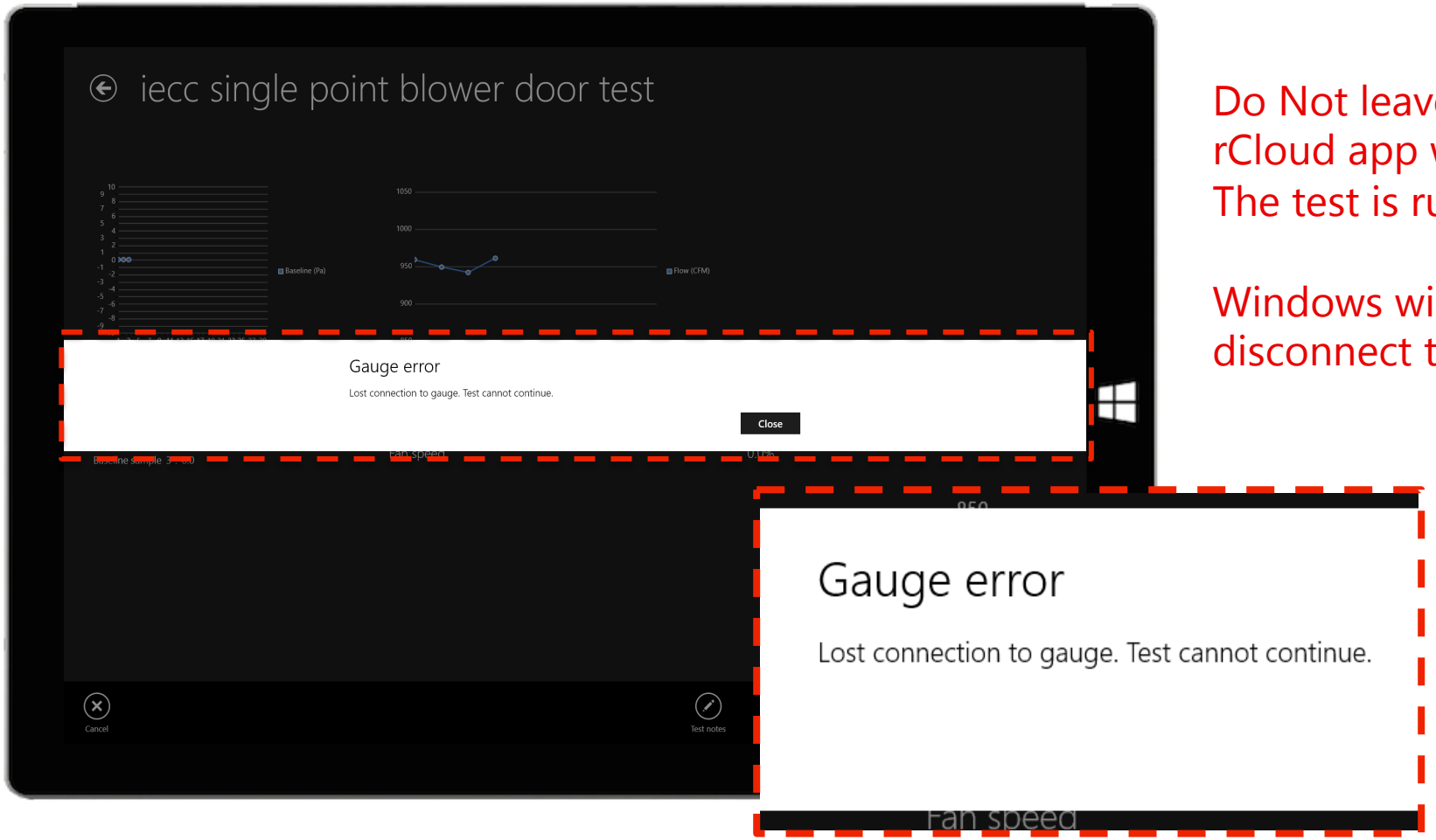


Caution: Keep rCloud active during a test

Windows tablet only

Do Not leave the rCloud app while The test is running!

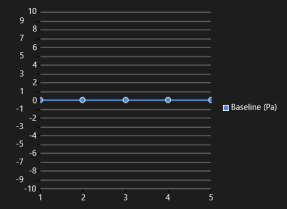
Windows will disconnect the gauge.

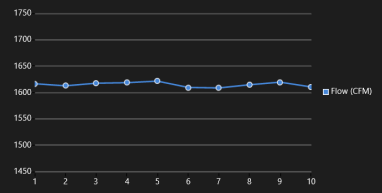


Blower door test results

resnet single point blower door test

Auto test complete





Your test results

Baseline average	0.0 Pa
Baseline range	0.0 Pa
Adjusted house pressure	-50.1 Pa
Nominal fan flow	1614.4 CFM
Gauge serial	403278
Device	1000/2000
Range	B

Baseline before samples

Baseline sample 1 : 0.0
Baseline sample 2 : 0.0
Baseline sample 3 : 0.0
Baseline sample 4 : 0.0
Baseline sample 5 : 0.0

Auto test samples

1. -49.4 Pa 1616.0 CFM
2. -50.9 Pa 1612.0 CFM
3. -49.9 Pa 1617.0 CFM
4. -50.2 Pa 1618.0 CFM
5. -49.7 Pa 1621.0 CFM
6. -50.8 Pa 1609.0 CFM
7. -50.5 Pa 1608.0 CFM
8. -49.7 Pa 1614.0 CFM
9. -49.6 Pa 1619.0 CFM
10. -50.5 Pa 1610.0 CFM

Cancel | Test notes | Retry | Stop | Pause | Accept

Your test results

Baseline average	0.0 Pa
Baseline range	0.0 Pa
Adjusted house pressure	-50.1 Pa
Nominal fan flow	1614.4 CFM
Gauge serial	403278
Device	1000/2000
Range	B

Tap “Accept” to review QA test report & upload results

Accept

Quality Assurance Report

auto test results summary

Quality Assurance Report

Test information

Test name	
Test date	2015-11-03
Technician	Joe Medosch
Technician email	joe@retrotec.com
Verified location	False

Building information

Address	4925 Shiloh Springs Rd
City	Cumming
State	GA
Zip	30040
Building location	34.1443, -84.1984
Year constructed	2006
Volume	23000 ft^3
Conditional floor area	2844 ft^2
Elevation	1079 ft

Test conditions

Indoor temperature	70°F
Outdoor temperature	64°F
Wind speed	0 mph
Notes	

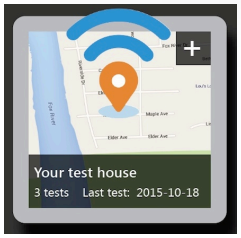
Test measurements

Test type	RESNET Single Point Blower Door Test
Level of accuracy	Standard
Average baseline	0.2 Pa
Baseline range	0.5 Pa
Induced building pressure	-50.1 Pa
Nominal CFM50	64.3 CFM
Corrected CFM50	64.3 CFM
Adjusted CFM50	64.3 CFM

Test measurements

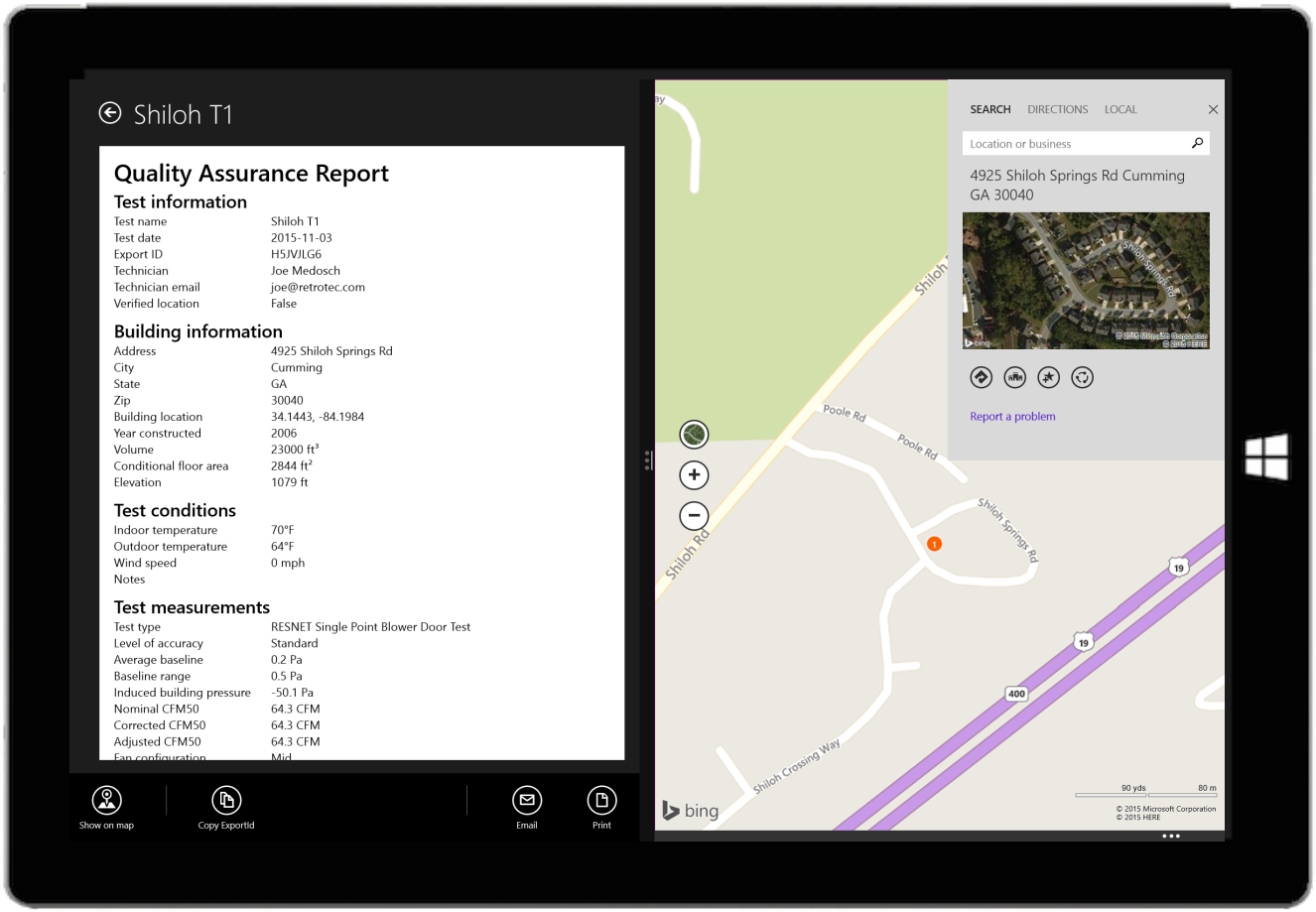
Test type	RESNET Single Point Blower Door Test
Level of accuracy	Standard
Average baseline	0.2 Pa
Baseline range	0.5 Pa
Induced building pressure	-50.1 Pa
Nominal CFM50	64.3 CFM
Corrected CFM50	64.3 CFM
Adjusted CFM50	64.3 CFM
Fan configuration	Mid
Fan model	Retrotec 200
Fan serial number	NA
Pressure gauge model	Retrotec DM32 5H
Gauge serial number	404099
Time averaging	10

Lower section of report



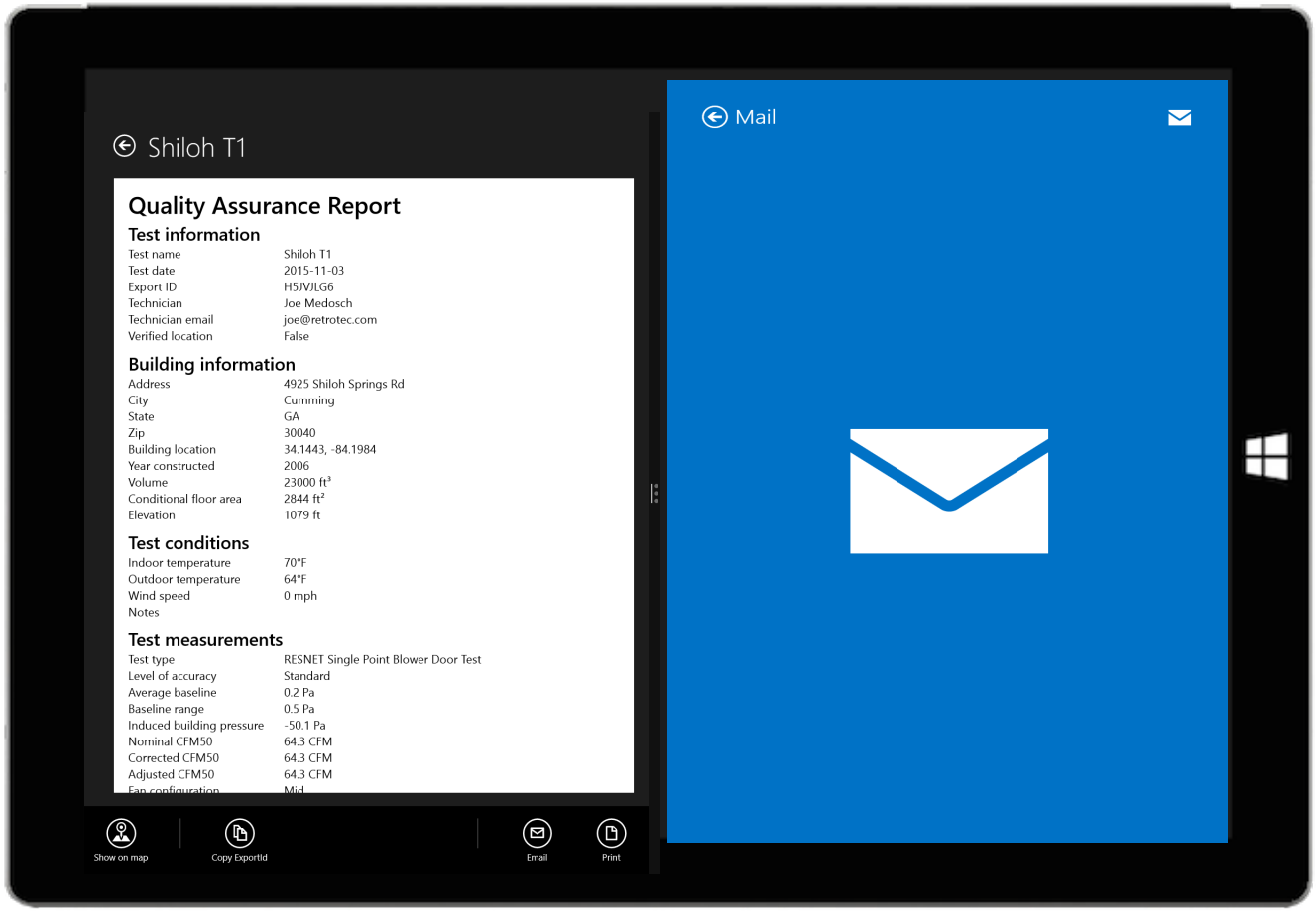
Quality Assurance Report

View individual reports on a map



Quality Assurance Report

Share the report immediately via email



rCloud Fee Structure and Billing

rCloud Fee Structure and Billing

$2 for each blower door test.

$2 for each duct test.

Additional blower door test or duct tests,

- at the same address AND
- with in a 30 day window, are free.

May 12 $2
Blower door test

June 10 $0
Blower door test

---

2 BD tests $2
SAME ADDRESS
$2 total

$2 total for 2 blower door tests because they were performed at the same address during a 30 day window

rCloud Fee Structure and Billing

$2 for each blower door test.

$2 for each duct test.

Example: 30 days of testing
15 total tests only $16

Additional BD / DT tests, in the same 30 days, at the same address are free.

May 12 $2
Blower door test

June 10 $0
Blower door test

2 BD tests $2
SAME ADDRESS
$2 total

May 13 $2
Blower door test

May 16 $2
Duct test

June 9 $0
Duct test

1 BD tests $2
2 DT tests $2
SAME ADDRESS
$4 total

May 14 $2
Duct test

May 18 $2
Blower door test

June 10 $0
Blower door test

2 BD tests $2
1 DT tests $2
SAME ADDRESS
$4 total

May 16 $2
Blower door test

May 23 $0
Blower door test

June 12 $0
Blower door test

3 BD tests $2
SAME ADDRESS
$2 total

May 16 $2
Duct test

May 22 $0
Duct test

May 28 $2
Blower door test

June 12 $0
Blower door test

2 BD tests $2
2 DT tests $2
SAME ADDRESS
$4 total

Connecting the DM32 to your device

Connecting the DM32 to your device

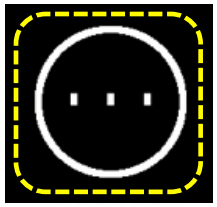
- The DM32 must be WiFi enabled
- You cannot use a USB cable to connect the gauge to rCloud
- The DM32 can CREATE a WiFi network or JOIN a WiFi network
- Be familiar with the device you're using with the rCloud app
    - You should know if it is 3G/4G enabled
    - OR if it is a WiFi only device
- Determine how you will connect the DM32 to your device
    - Make sure you know the WiFi/Network name
    - Determine if it has a password
- Become familiar with generating a hotspot on your device

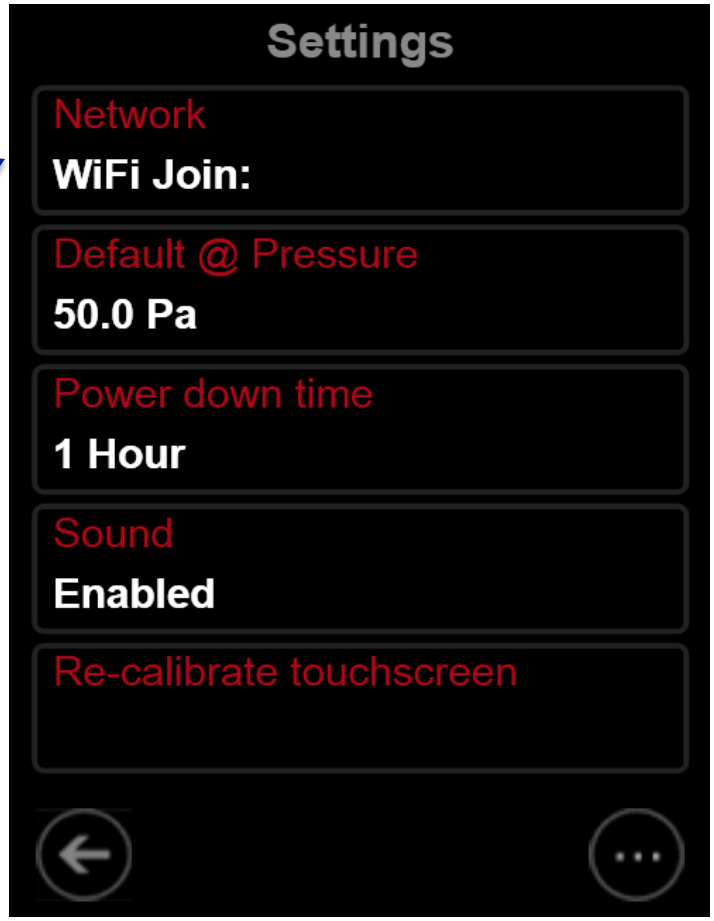
Setup - DM32 WiFi options

Join vs Create

Note: WiFi is just a communication signal between devices, not an internet connection.

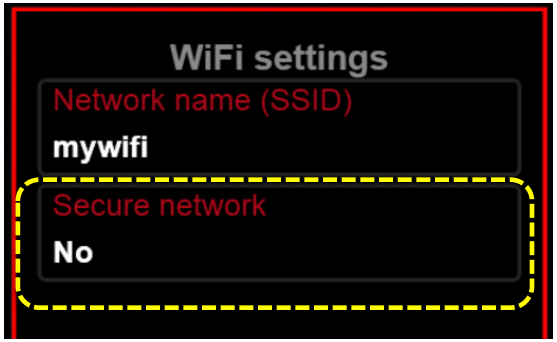
Setup Network Settings



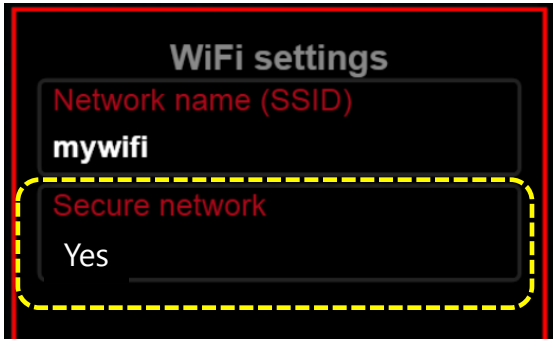


Tap settings, then . The [Network] settings is at the top.

Setup - DM32 WiFi options
Join vs Create



Password = No



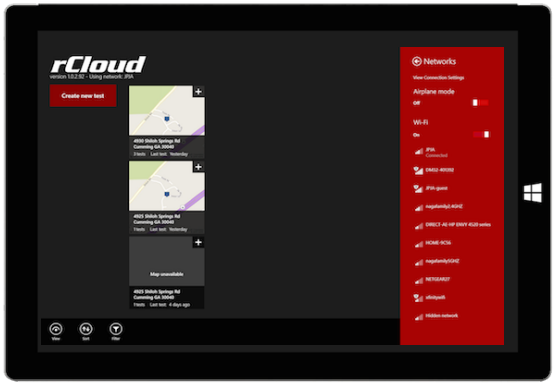
Password = Yes

Device

No 3G/4G

Offline mode

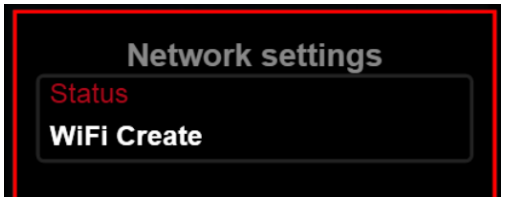
Not connected to internet



Network Connection

Direct Connect To DM32

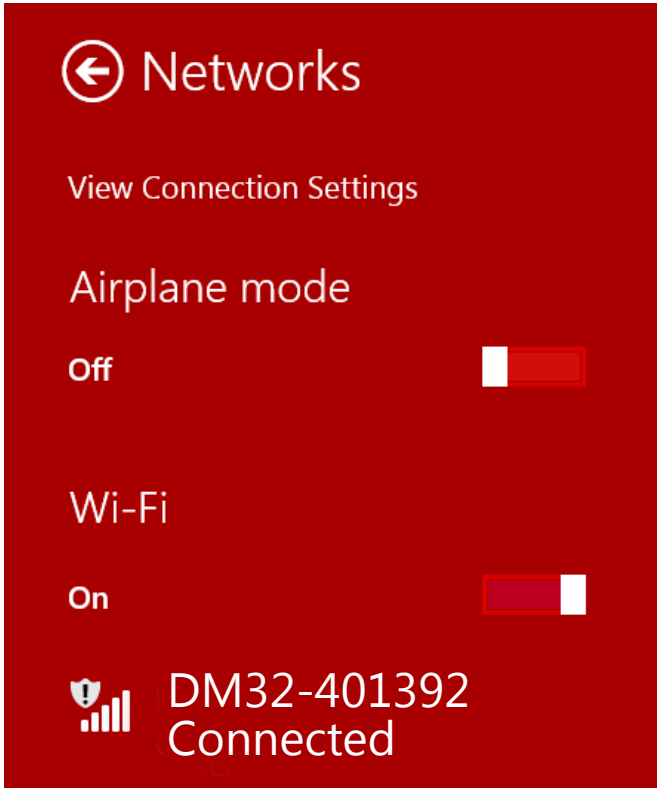
DM32 Settings



DM32 creates a WiFi signal (hotspot) and the device joins the network

Device

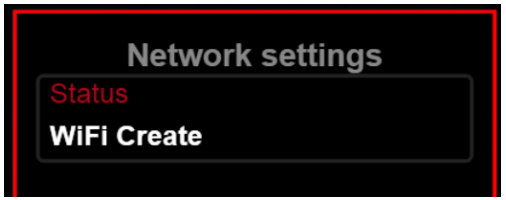
Connect to DM32



Network Connection

Direct Connect To DM32

DM32 Settings



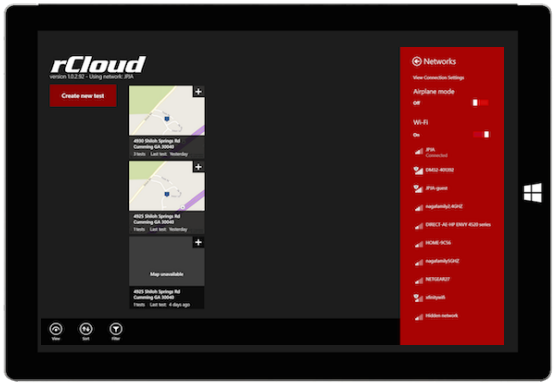
DM32 creates a WiFi signal (hotspot) and the device joins the network

Device

No 3G/4G

Offline mode

Not connected to internet



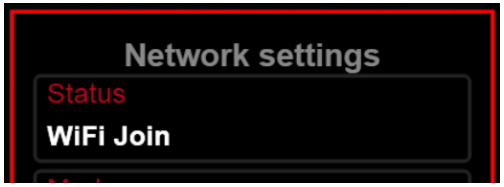
Network Connection

Join router or other hotspot

Router

No internet connection

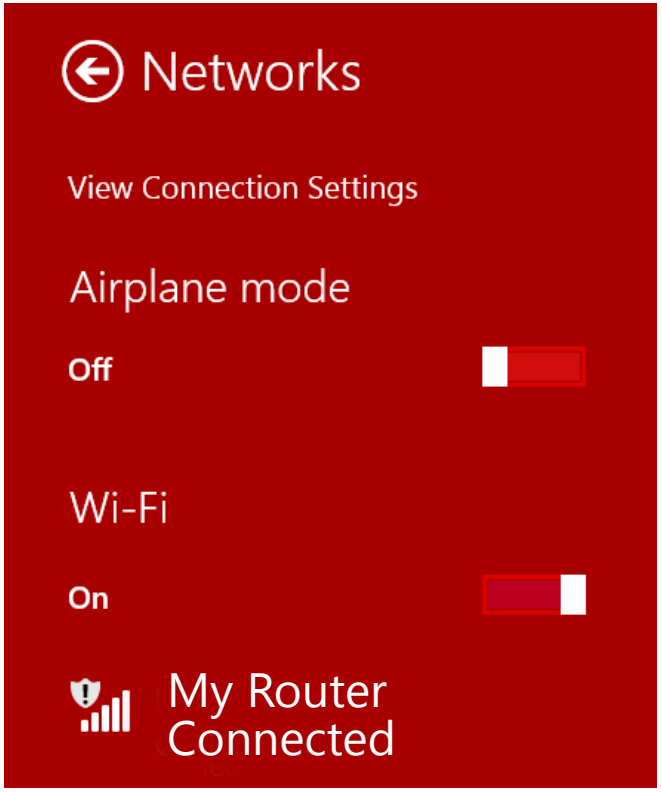
DM32 Settings



Router creates a WiFi signal (hotspot)
and the device and DM32 join the same network

Device

Connect to Router

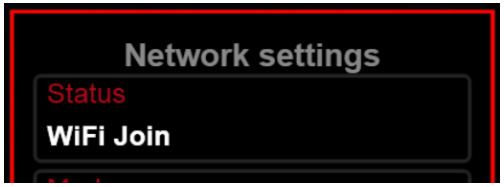


Network Connection

Join router or other hotspot

Router

DM32 Settings

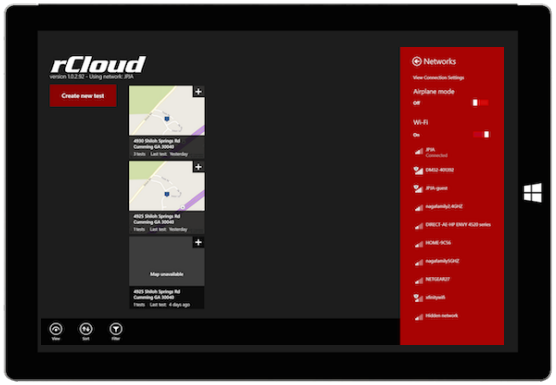


Router creates a WiFi signal (hotspot)
and the device and DM32 join the same network

Device

No 3G/4G

Online – Connected to internet



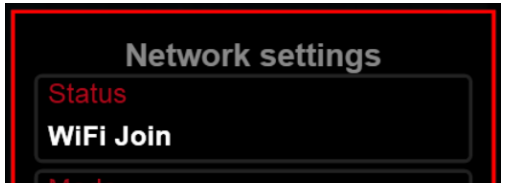
Network Connection

Join Phone or Mobile hotspot

Phone

Mobile Hotspot

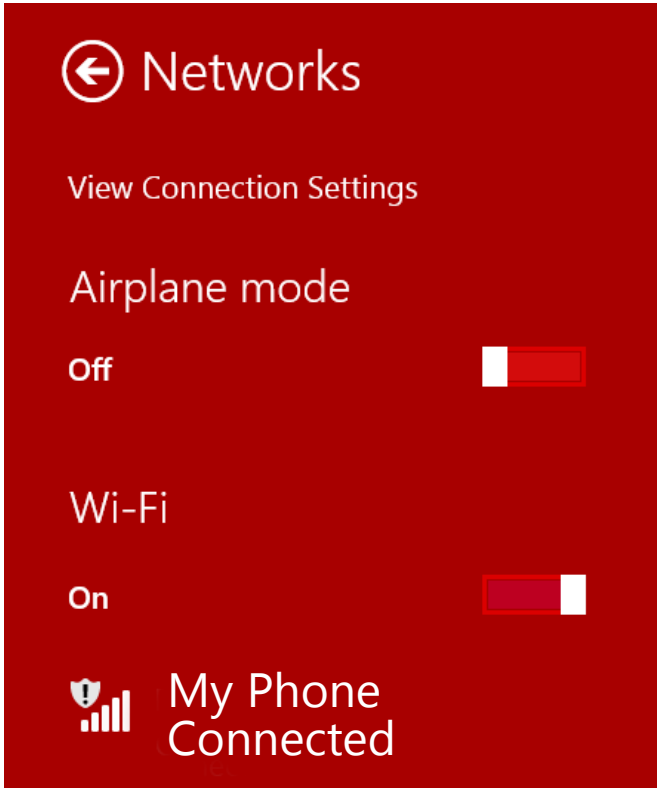
DM32 Settings



Phone creates a WiFi signal (hotspot)
and the device and DM32 join the same network

Device

Connect to Phone



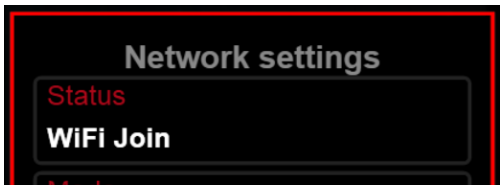
Network Connection

Join Phone or Mobile hotspot

Phone

Mobile Hotspot

DM32 Settings

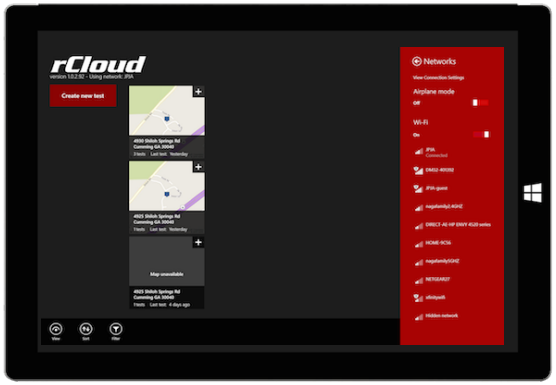


Phone creates a WiFi signal (hotspot)
and the device and DM32 join the same network

Device

Yes 3G/4G

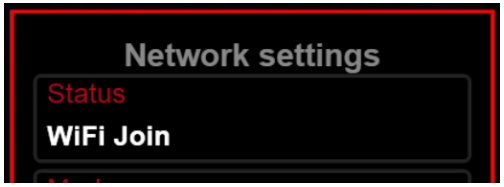
Online – Connected to internet



Network Connection

DM32 Joins Hotspot created by device

DM32 Settings

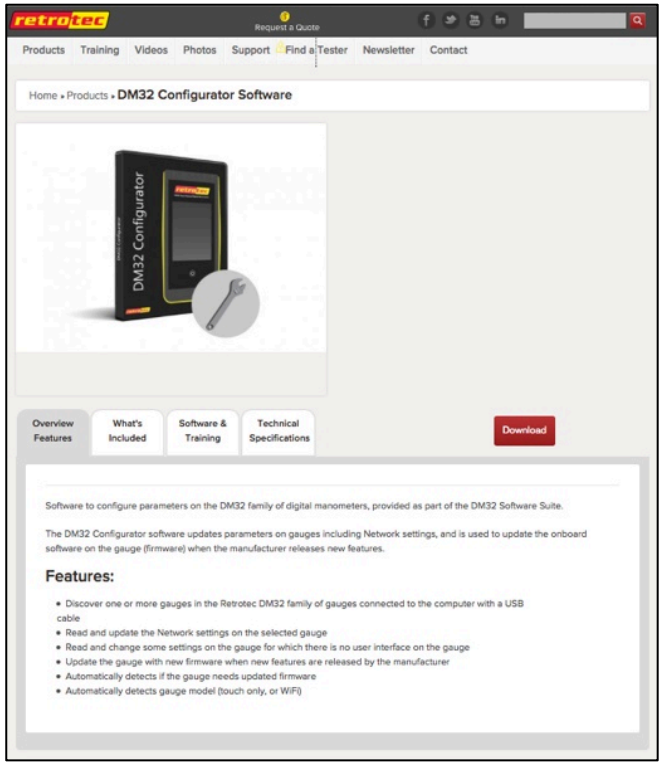


Device creates a WiFi signal (hotspot) and the DM32 join the network

DM32 Configurator

If the DM32 is set to "Join" a WiFi network that has a PASSWORD,
then the DM32 need to connected to the Configurator to enter the PASSWORD

Retrotec.com > Support > Software



DM32 Configurator

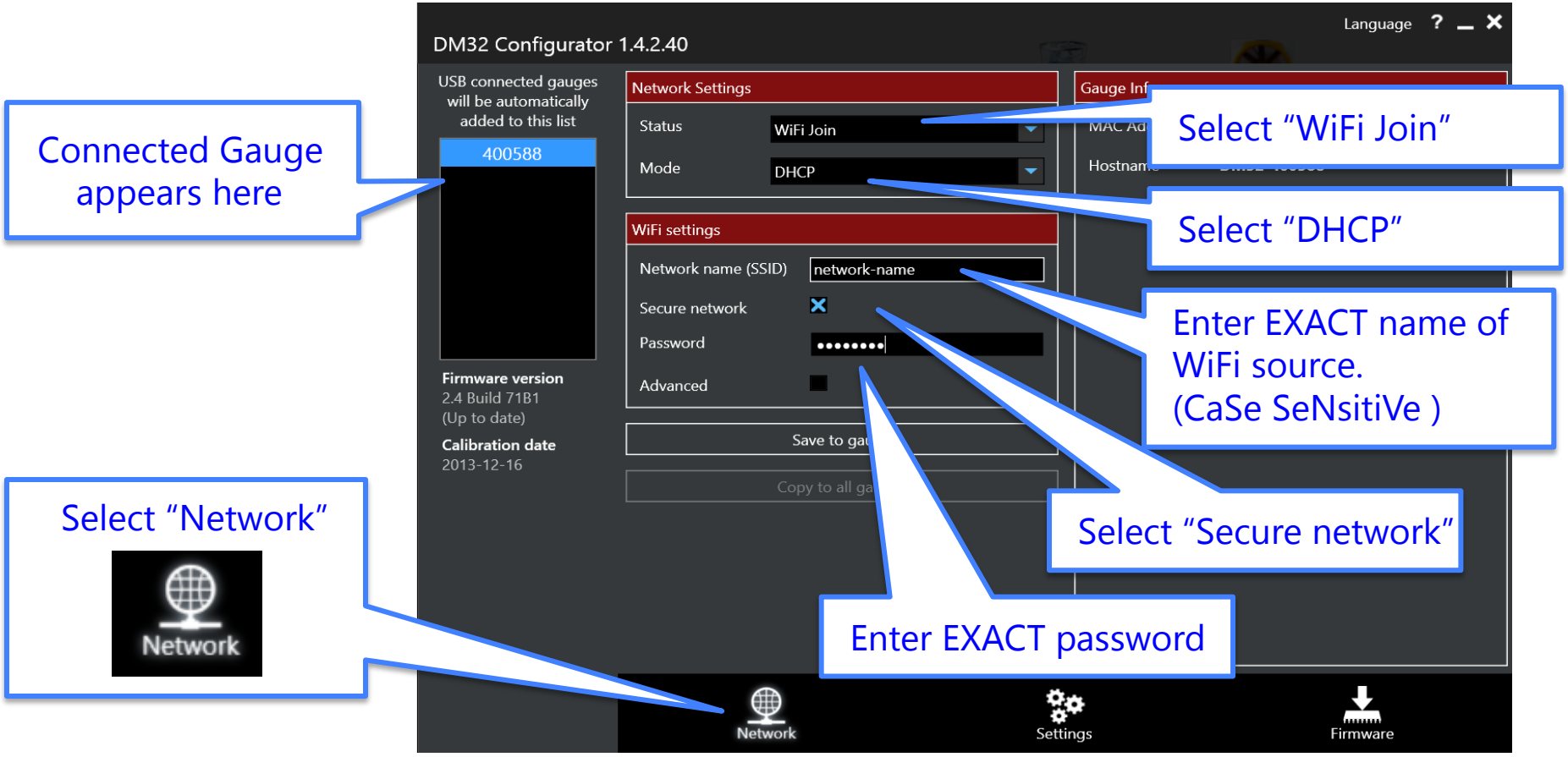
This is ONLY if the DM32 is set to "Join" a WiFi source that has a PASSWORD, then the DM32 needs to connected to the Configurator to enter the PASSWORD

1. Download and install Retrotec's Configurator application.
2. Restart computer
3. Open Configurator
4. DM32 should be OFF
5. Connect the USB to the computer and DM32
6. The configurator will find the gauge and be listed on the left side.
7. Select "Network from the bottom

USB

DM32 Configurator

This is ONLY if the DM32 is set to "Join" a WiFi source that has a PASSWORD, then the DM32 need to connected to the Configurator to enter the PASSWORD



DM32 Configurator

Temporary condition

Currently working on integrating this feature directly into the DM32 and the rCloud app

Please email your questions, features or issues to:

rCloud@retrotec.com

Please include some basic information like …

- rCloud version.
- What device were you were using.
- Type of WiFi and/or internet connection.
- What were you doing when when the issue occurred.
- Anything else that can help diagnose the issue.