

24/7 ASSET MONITORING SOLUTION ENERGY

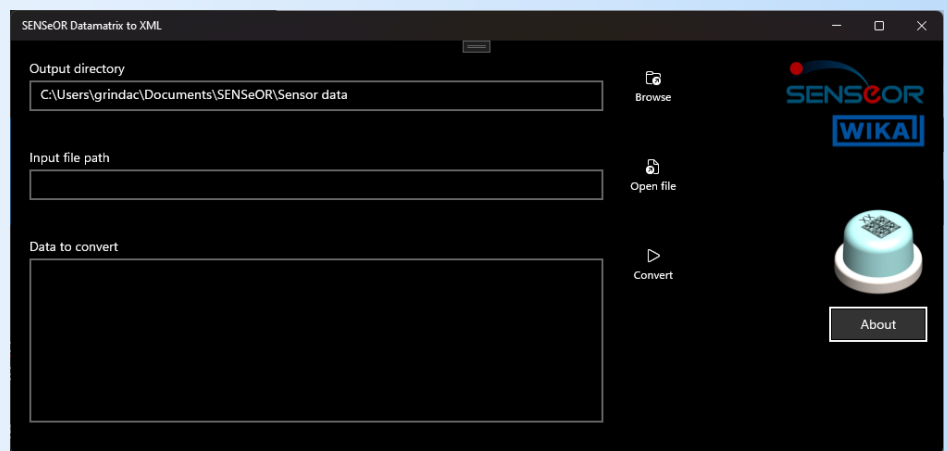
DATAMATRIX TO XML USER MANUAL

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WARRANTY

These products are warranted to be free from functional defects in material and in workmanship at the time of the manufacturing and to conform at that time to the specifications set forth in the relevant instruction manuals or in the data sheets, for such products for a period of one year.

Reference SENSEOR terms and conditions provided at time of purchase for complete warranty details.



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SAFETY INFORMATION

IT IS IMPORTANT TO READ THIS MANUAL BEFORE INSTALLING OR COMMISSIONING SENSEOR CRITICAL ASSET MONITORING SYSTEMS.

DANGER

DANGER INDICATES AN IMMINENTLY HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.

FAILURE TO FOLLOW THE INSTRUCTIONS GIVEN WILL RESULT IN DEATH OR SERIOUS INJURY.

WARNING

WARNING INDICATES A POTENTIALLY HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

FAILURE TO FOLLOW THE GIVEN INSTRUCTIONS CAN RESULT IN DEATH OR IN SERIOUS INJURY.

CAUTION

CAUTION INDICATES A POTENTIALLY HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY.

NOTICE

NOTICE PROVIDES GUIDANCE ON DAMAGE UNRELATED TO PERSONAL INJURY, SUCH AS THOSE THAT CAN CAUSE DETERIORATED PROPERTY.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PROPERTY DAMAGE.

IMPORTANT

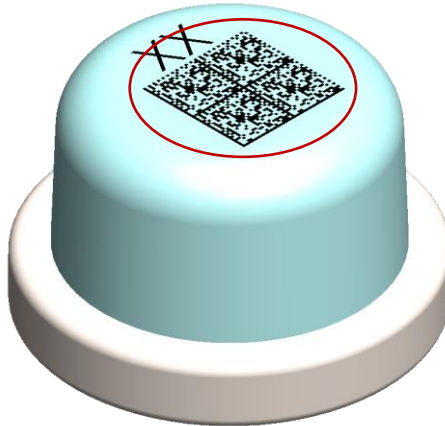
IMPORTANT INDICATES ADDITIONAL INFORMATION ABOUT MAKING EFFECTIVE USE OF THIS PRODUCT.

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OVERVIEW

This user manual describes how to use the *SENSeOR Datamatrix to XML* to generate XML files from the Datamatrix located on the top of the **TSA-EV11** temperature sensors.



This manual provides user guidelines for **version 1.0.0**.

The XML files generated by the application will then be used for the '*SENSeOR Configuration Tool*' applications.

SOFTWARE INSTALLATION

1.1 OPERATING SYSTEM

The *SENSeOR Datamatrix to XML* operates only on Microsoft Windows operating system, with at least Windows 10.

1.2 SOFTWARE INSTALLATION

To install *SENSeOR Datamatrix to XML*, extract the '*Datamatrix to XML vX.X.X.zip*' zipped files.

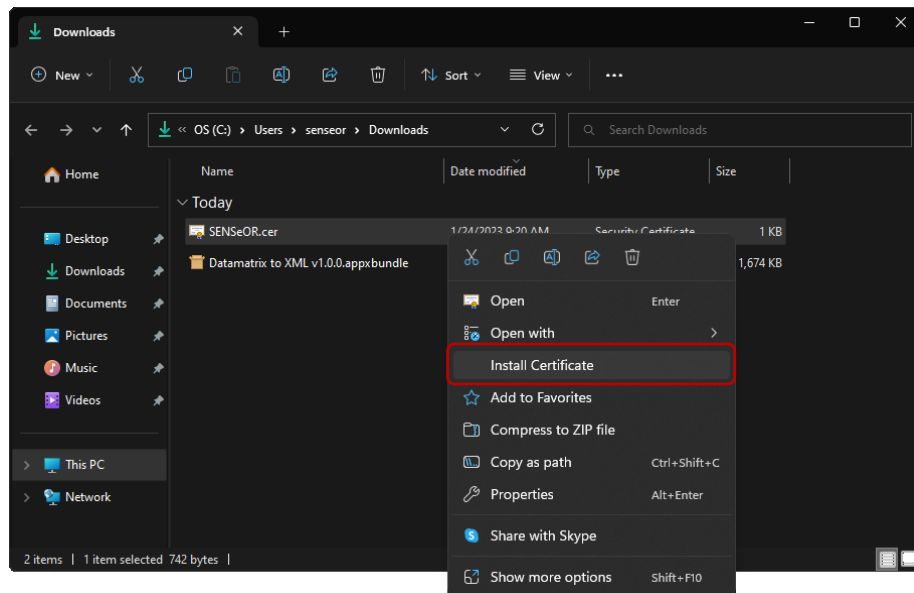
It contains two files: '*SENSeOR.cer*' and '*Datamatrix to XML vX.X.X.appxbundle*'.

NOTE

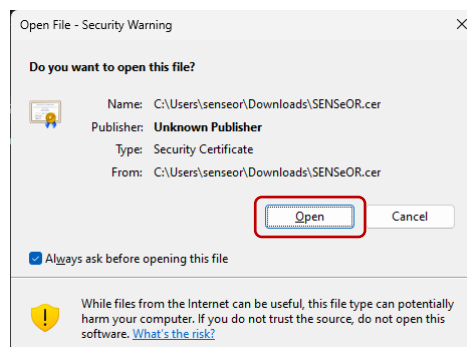
THE LAST REVISION OF THE SOFTWARE IS AVAILABLE ON THE [SENSEOR WEBSITE](http://www.senseor.com).

1.2.1 'SENSEOR' CERTIFICATE INSTALLATION

Right click on the '*SENSeOR.cer*' file and select '*Install Certificate*' menu.

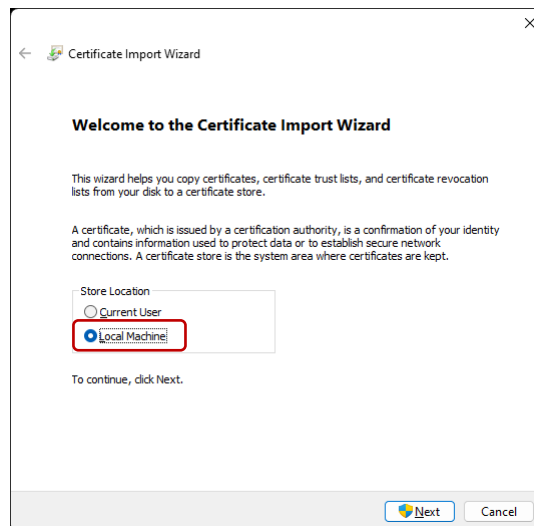


Click on the '*Open*' button to allow the '*Security Warning*'.



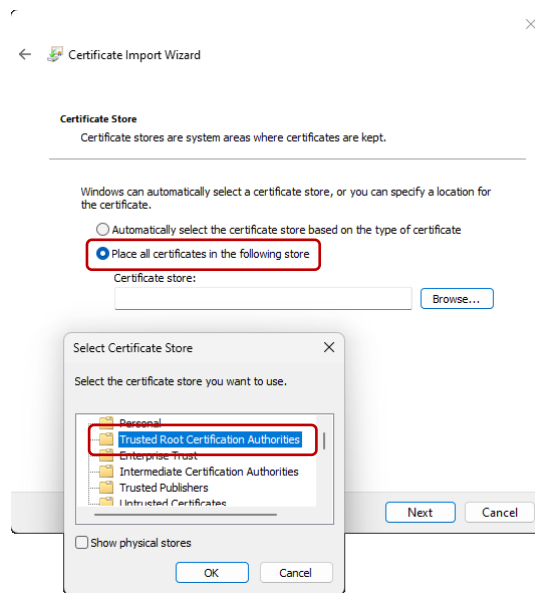
The '*Certificate Import Wizard*' opens.

Select '*Local Machine*' as Store Location and click on '*Next*' button.

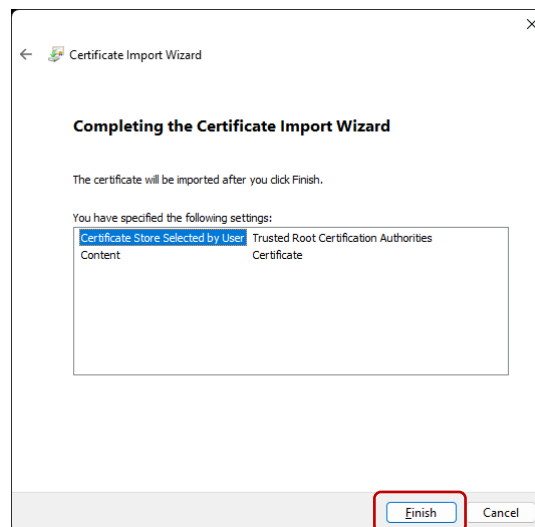


Validate 'Administrator mode approval' window and select '**Place all certificates in the following store**'.

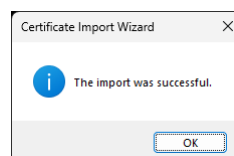
Click on '**Browse**' button, select '**Trusted Root Certification Authorities**' and click on '**OK**' button.



Click on '**Next**' button and then '**Finish**' button to import certificate.



Click on '**OK**' to confirm the '**SENSeOR certificate**' installation.

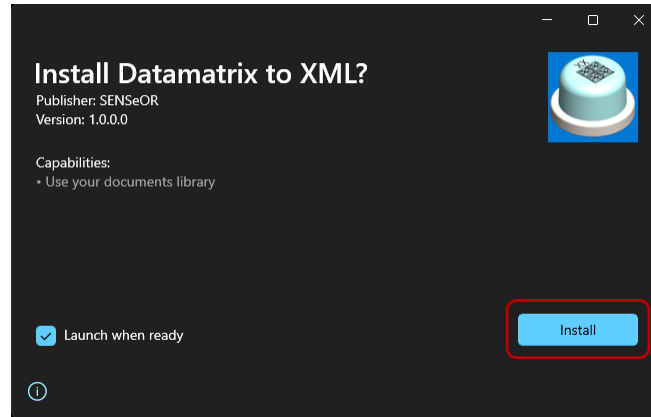


NOTE

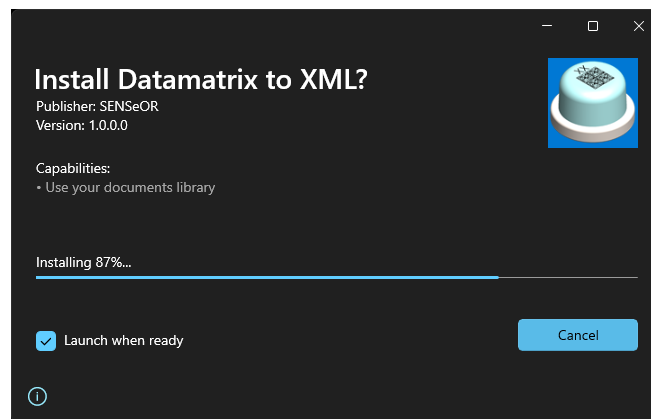
ADMINISTRATOR RIGHTS ARE REQUIRED TO INSTALL APPLICATION.

1.2.2 APPLICATION INSTALLATION

Double click on '*Datamatrix to XML vX.X.X.appxbundle*' file to launch '*App installer*'.



Click on '*Install*' button to start installation.

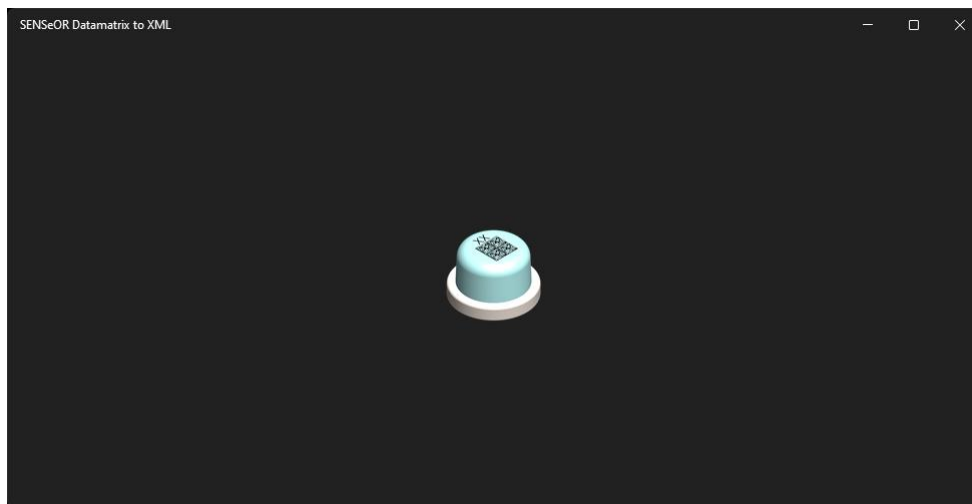


NOTE

AT EACH LAUNCH, THE APPLICATION WILL AUTOMATICALLY CHECK FOR UPDATES.

APPLICATION LAUNCH

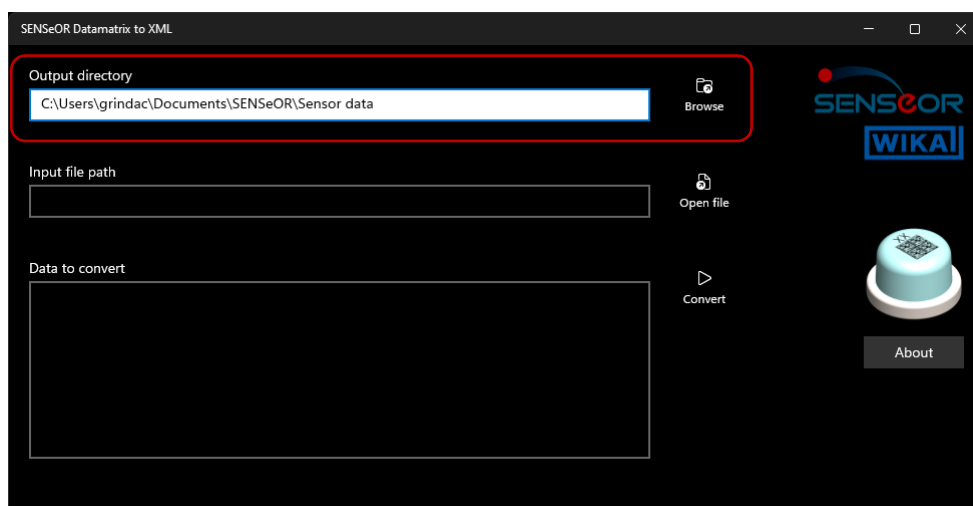
The *SENSeOR Datamatrix to XML* installation creates a shortcut with the same name in the Windows menu. Click on it to launch the program.



1.3 SOFTWARE STARTUP

At start-up, the application sets the default '*Output directory*' path to '*Current user\Documents\SENSeOR\Sensor data*'.

As its name suggests, this directory will host all the sensor XML files created.



To select another output directory, click on the '**Browse**' button.

SENSOR XML FILES GENERATION

1.4 GENERATING XML FILES FROM AN INPUT TEXT FILE

1.4.1 CREATING THE INPUT TEXT FILE

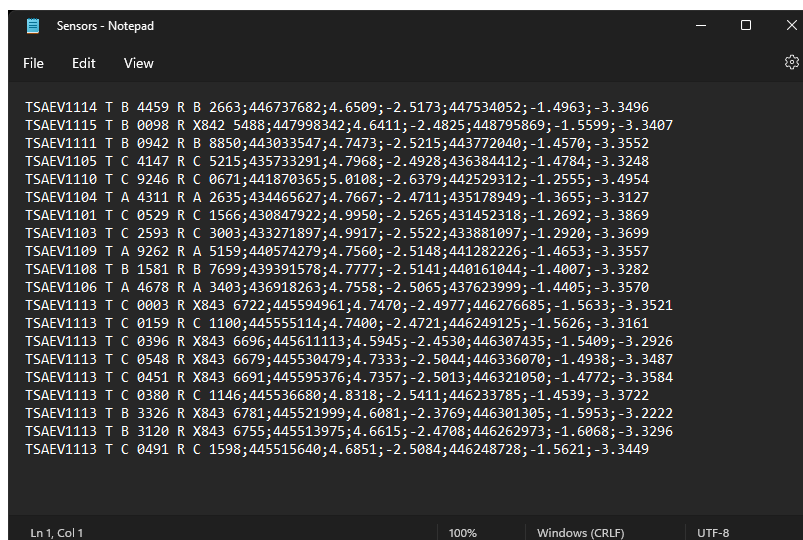
To automatically generate several XML files, simply import a text file containing the data to be converted.

To create this input file, you can use the Windows '*Notepad*' application (or any other text editor) and save it as a text file. Its name, encoding format and saving directory do not matter.

Each line of the file represents a sensor.

To add new data to it, you can use free mobile apps such as '*CortexScan*' or '*QRbot*' (available from '*App Store*' and '*Google Play*'), scan the sensor's radome Datamatrix (of the top of sensor) and paste string data.

Here is an example of a text file created called '*Sensors*' and containing 20 sensors.



```

TSAEV1114 T B 4459 R B 2663;446737682;4.6509;-2.5173;447534052;-1.4963;-3.3496
TSAEV1115 T B 0098 R X842 5488;447998342;4.6411;-2.4825;448795869;-1.5599;-3.3407
TSAEV1111 T B 0942 R B 8850;443033547;4.7473;-2.5215;443772040;-1.4570;-3.3552
TSAEV1105 T C 4147 R C 5215;435733291;4.7968;-2.4928;436384412;-1.4784;-3.3248
TSAEV1110 T C 9246 R C 0671;441870365;5.0108;-2.6379;442529312;-1.2555;-3.4954
TSAEV1104 T A 4311 R A 2635;434465627;4.7667;-2.4711;435178949;-1.3655;-3.3127
TSAEV1101 T C 0529 R C 1566;430847922;4.9950;-2.5265;431452318;-1.2692;-3.3869
TSAEV1103 T C 2593 R C 3003;433271897;4.9917;-2.5522;433881097;-1.2920;-3.3699
TSAEV1109 T A 9262 R A 5159;440574279;4.7560;-2.5148;441282226;-1.4653;-3.3557
TSAEV1108 T B 1581 R B 7699;439391578;4.7777;-2.5141;440161044;-1.4007;-3.3282
TSAEV1106 T A 4678 R A 3403;436918263;4.7558;-2.5065;437623999;-1.4405;-3.3570
TSAEV1113 T C 0003 R X843 6722;445594961;4.7470;-2.4977;446276685;-1.5633;-3.3521
TSAEV1113 T C 0159 R C 1100;445555114;4.7400;-2.4721;446249125;-1.5626;-3.3161
TSAEV1113 T C 0396 R X843 6696;445611113;4.5945;-2.4530;446307435;-1.5409;-3.2926
TSAEV1113 T C 0548 R X843 6679;445530479;4.7333;-2.5044;446336070;-1.4938;-3.3487
TSAEV1113 T C 0451 R X843 6691;445595376;4.7357;-2.5013;446321050;-1.4772;-3.3584
TSAEV1113 T C 0380 R C 1146;445536680;4.8318;-2.5411;446233785;-1.4539;-3.3722
TSAEV1113 T B 3326 R X843 6781;445521999;4.6081;-2.3769;446301305;-1.5953;-3.2222
TSAEV1113 T B 3120 R X843 6755;445513975;4.6615;-2.4708;446262973;-1.6068;-3.3296
TSAEV1113 T C 0491 R C 1598;445515640;4.6851;-2.5084;446248728;-1.5621;-3.3449

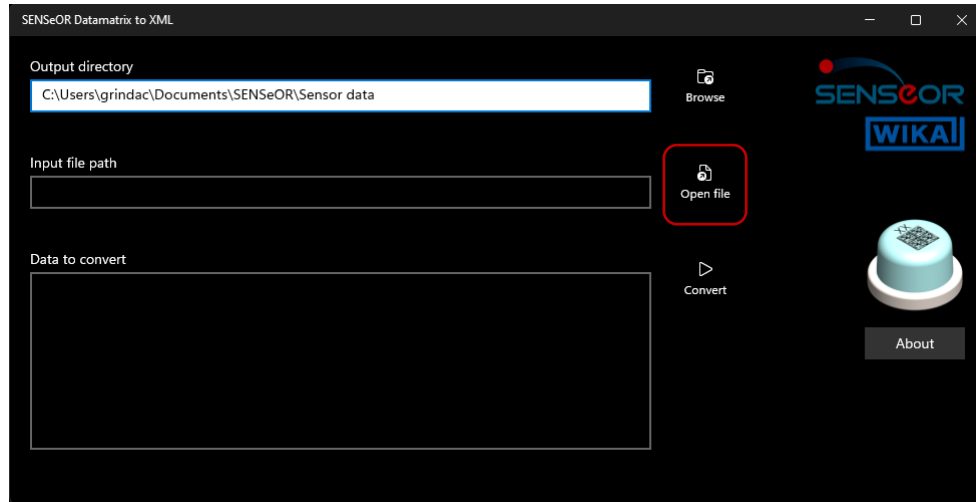
```

NOTE

THERE IS NO LIMITATION ON THE NUMBER OF SENSORS TO CONVERT.

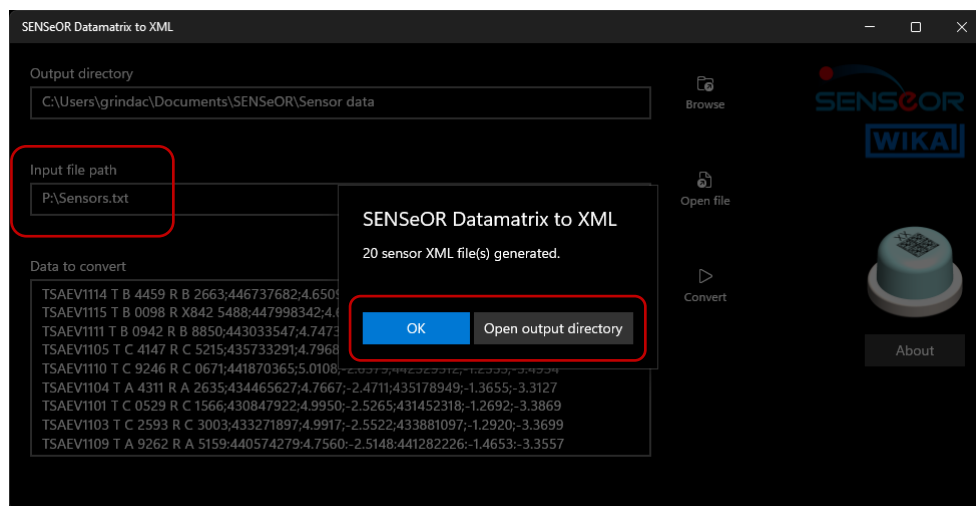
1.4.2 IMPORT OF THE CREATED TEXT FILE

Click on the '**Open file**' button and browse the created text file.



Click on '**Open**'. The application will load the content of the file into the '*Data to convert*' text box and the text file path in the '*Input file path*' text box.

Once data conversion is done, a message indicates how many XML files have been generated.



By clicking on the '**OK**' button, the application is ready to start a new conversion.

By clicking on the '**Open output directory**' button, the previous '*Data to convert*' content is cleared and the application launches Windows explorer to view created files.

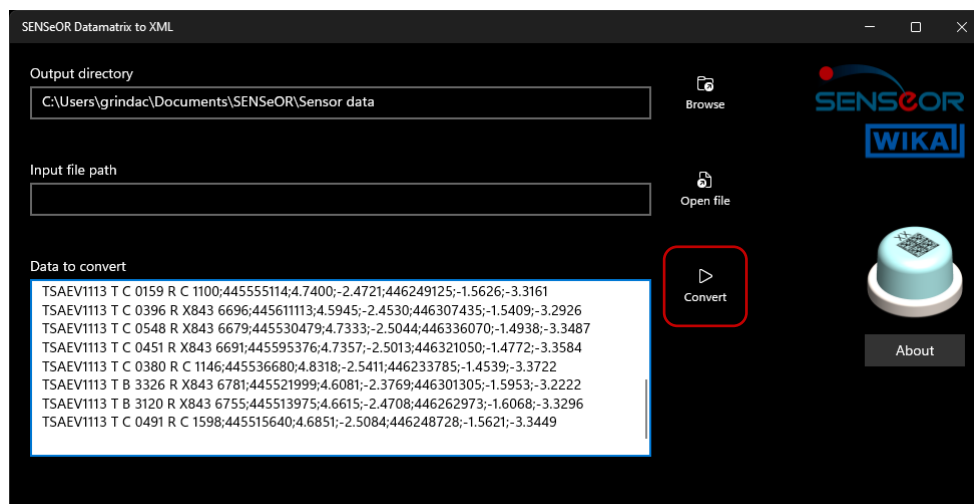
1.5 GENERATING XML FILES FROM LIVE DATA

The other way to generate the sensor XML files is to directly paste the radome Datamatrix (located of the top of the sensor) data into the '*Data to convert*' text box.

To do this, you can use a Datamatrix-compatible USB scanner like this one.

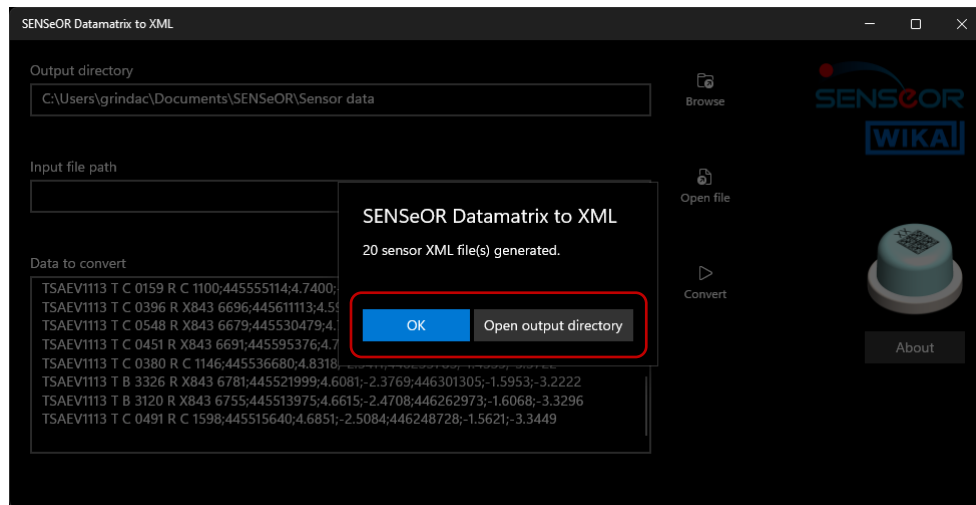


To add new data, click on the '*Data to convert*' text box and scan as many Datamatrix as needed. Line wrap is automatic after each scan.



When all the sensors are scanned, click on the '**Convert**' button to start conversion.

Once data conversion is done, a message indicates how many XML files have been generated.



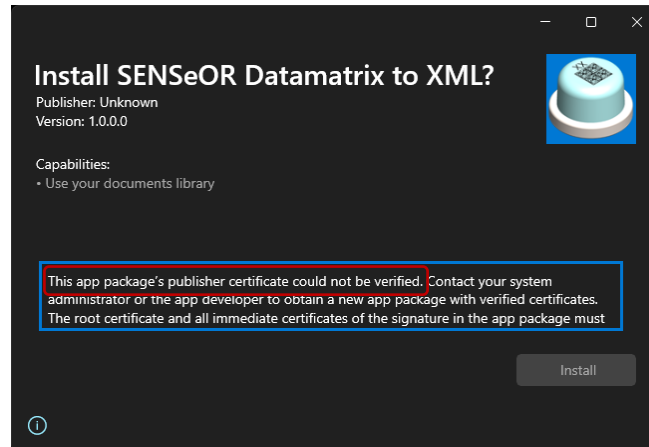
By clicking on the '**OK**' button, the application is ready to start a new conversion.

By clicking on the '**Open output directory**' button, the previous '*Data to convert*' content is cleared and the application launches Windows explorer to view created files.

TROUBLESHOOTING

1.6 UNABLE TO INSTALL APPLICATION

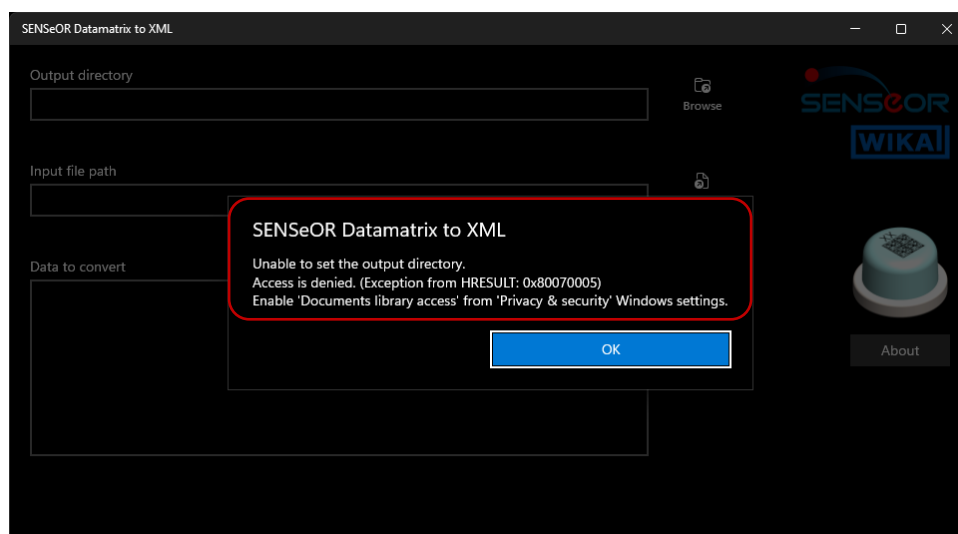
If the following window appears, it means that the '*SENSeOR certificate*' is not correctly installed.



To fix it, please refer to chapter '[SENSeOR certificate installation](#)' and try again to [install 'Datamatrix to XML'](#)'.

1.7 UNABLE TO SET THE 'OUTPUT DIRECTORY'

At application startup, if the following window appears, it means that the '*Documents library access*' is disabled.



To fix it, enable '*Documents library access*' from '*Privacy and security*' Windows settings.

