

Excel to Metrel ESM file converter

Welcome!

This tool will help you convert your data in a .xlsx (Excel) file format to Metrel .padfx file format. You can then easily edit and/or view your data using the Metrel ES Manager or Metrel SDK software.

Continue

Excel to Metrel ESM file converter instructions



Distributor:

Manufacturer:
METREL d.d.
Ljubljanska cesta 77
1354 Horjul
Slovenia

web site: <http://www.metrel.si>
e-mail: metrel@metrel.si

© 2022 METREL

	Mark on your equipment certifies that this equipment meets the requirements of the EU (European Union) concerning safety and electromagnetic compatibility regulations.
---	---

No part of this publication may be reproduced or utilized in any form or by any means without permission in writing from METREL.



Table of Contents

1	DASHBOARD SCREEN	4
2	IMPORTING EXAMPLE	7
Figure 1	Dashboard screen of web service wizard - fixed part	4
Figure 2	Dashboard screen of web service wizard - user defined part	6
Figure 3	Correlation between Excel & Parameter links.....	7
Figure 4	Correlation between MESM, Excel, and Wizard	8
Figure 5	Correlation between MESM & Wizard	9



1 Dashboard screen

Wizard

General Settings

Number of lines to skip from top	:	0
Work scope 1st level	:	Safety of Electrical Equipment I
Work scope 2nd level	:	PAT (new instruments)

Structure objects Settings

>_ Node 	Structure object type:
	Node

Row Settings

Structure object type	:	Appliance_FD
-----------------------	---	---

Parameter links

Parameter	:	Appliance ID
Column letter	:	A
Allow null or empty	:	False
Column type	:	Text

Add new...

Load configuration

Save configuration

Select an excel file and start conversion

Figure 1 Dashboard screen of web service wizard - fixed part



General Settings	
Enables basic settings for creation of .padfx files.	
Number of lines to skip from top	Defines how many lines in the excel file will be skipped (starting, line 1).
Work scope 1 st level	Defines the master and child Work scope for created .padfx file. Correct Work scope must be selected in order to enable files transfer to the desired instrument.
Work scope 2 nd level	
Structure objects Settings	
Enables the creation of a basic structure, where the structural elements with relevant data will be imported.	
Structure object type	Enables selection of corresponding structural elements for the relevant structural level.
Row Settings	
Enables to define data structure from excel file, to be linked to the corresponding parameters of the selected structural element.	
<i>Parameter links</i>	
Each configuration is corresponding to relevant column from source excel file.	
Parameter	Enables selection of parameter linked to the corresponding structural element. Each parameter can be linked only to one column letter in the source excel file.
Column letter	Defines the column in the source excel file.
Allow null or empty	Defines criteria for specific cell. <u>True</u> = allows empty cells in specific column. <u>False</u> = forbids empty cells in specific column.
Column type	Defines criteria for specific cell. <u>Text</u> = cell data can contain letters, numbers, and special characters such as ! or &. <u>Date & time</u> = cell data shall be in following format <i>dd.mm.yyyy hh:mm:ss</i> .
Add new...	Allows adding of the set parameters to the list.
Load configuration	Enables to load user configuration from file.
Save configuration	Enables to save set configuration to file.
Select an excel file and start conversion	Enables selection of source excel file, conversion to .padfx is started automatically if no exceptions are found.



Parameter
: Group
Column letter
:
Allow null or empty
: True
Column type
: Text

Add new...

Parameter ID
: Producer / Make [Id: 198]
Column letter
: D
Allow null or empty
: True
Column type
: Text

Parameter ID
: Inventory No. [Id: 193]
Column letter
: C
Allow null or empty
: True
Column type
: Text

Parameter ID
: Name [Id: 195]
Column letter
: B
Allow null or empty
: True
Column type
: Text

Parameter ID
: Appliance ID [Id: 194]
Column letter
: A
Allow null or empty
: True
Column type
: Text

Figure 2 Dashboard screen of web service wizard - user defined part

Parameter ID : Producer / Make [Id: 198] Column letter : D Allow null or empty : True Column type : Text	A field with user-set parameters, each section defines its own column in excel.
	Allows removal of specific section.

2 Importing example

First prepare the excel file, put the data into the correct format. Data shall be arranged in columns, all cells except dates shall be categorized as General. Cells containing dates shall be categorized as Date and formatted as *dd.mm.yyyy*.

The screenshot shows an Excel spreadsheet with the following data:

ID number	Name	Inventory number	Producer / Make	Test Date	Retest period (in months)	Next Test
12830	Agregat malarski GX 21	HDGDD6611DDD	GRACO	15.3.2021	12	15.3.2022
12831	Agregat malarski GX 21	HSJNNCD5515457	GRACO	15.3.2021	12	15.3.2022
12832	Agregat malarski GX 21	JDBZZG54SD455D	GRACO	15.3.2021	12	15.3.2022
12833	Agregat malarski GX 21	HSJNNCD5515455	GRACO	15.3.2021	12	15.3.2022
12834	Agregat malarski GX 21	HSJNNCD5515112	GRACO	16.3.2021	12	16.3.2022
12835	Agregat malarski GX 21	A21B17G183030295	GRACO	17.3.2021	12	17.3.2022
12836	Agregat malarski GX 21	L20B17G183029724	GRACO	16.3.2021	12	16.3.2022
12837	Agregat malarski GX 21	A21B17G183030328	GRACO	17.3.2021	12	17.3.2022
12838	Agregat malarski GX 21	L20B17G183029911	GRACO	16.3.2021	12	16.3.2022
12839	Agregat malarski GX 21	A21B17G183030814	GRACO	17.3.2021	12	17.3.2022
12840	Agregat malarski GX 21	A21B17G183030809	GRACO	17.3.2021	12	17.3.2022
12841	Agregat malarski GX 21	A21B17G183030597	GRACO	15.3.2021	12	15.3.2022
12875	Agregat malarski GX 21	C21B17G183033207	GRACO	15.3.2021	12	15.3.2022
12876	Agregat malarski GX 21	C21B17G183033211	GRACO	15.3.2021	12	15.3.2022
12877	Agregat malarski GX 21	C21B17G183033208	GRACO	15.3.2021	12	15.3.2022
12878	Agregat malarski GX 21	C21B17G183033205	GRACO	16.3.2021	12	16.3.2022
12879	Agregat malarski GX 21	D21B17G183035332	GRACO	17.3.2021	12	17.3.2022
12880	Agregat malarski GX 21	C21B17G183033198	GRACO	16.3.2021	12	16.3.2022
12881	Agregat malarski GX 21	C21B17G183033193	GRACO	17.3.2021	12	17.3.2022
12882	Agregat malarski GX 21	C21B17G183033212	GRACO	16.3.2021	12	16.3.2022
12883	Agregat malarski GX 21	C21B17G183033210	GRACO	17.3.2021	12	17.3.2022
12884	Agregat malarski GX 21	C21B17G183033206	GRACO	17.3.2021	12	17.3.2022
12885	Agregat malarski GX 21	C21B17G183033075	GRACO	15.3.2021	12	15.3.2022
12886	Agregat malarski GX 21	C21B17G183033204	GRACO	15.3.2021	12	15.3.2022
13079	Agregat malarski GX 21	L20B17G183030091	GRACO	15.3.2021	12	15.3.2022

The parameter configuration panel on the right shows the following settings:

- Parameter ID: Next test [Id: 257]
- Column letter: G
- Allow null or empty: True
- Column type: Date & Time
- Parameter ID: Retest period (in months) [Id: 215]
- Column letter: F
- Allow null or empty: True
- Column type: Text
- Parameter ID: Test date [Id: 261]
- Column letter: E
- Allow null or empty: True
- Column type: Date & Time
- Parameter ID: Producer / Make [Id: 198]
- Column letter: D
- Allow null or empty: True
- Column type: Text
- Parameter ID: Inventory No. [Id: 193]
- Column letter: C
- Allow null or empty: True
- Column type: Text
- Parameter ID: Name [Id: 195]
- Column letter: B
- Allow null or empty: True
- Column type: Text
- Parameter ID: Appliance ID [Id: 194]
- Column letter: A
- Allow null or empty: True
- Column type: Text

Red arrows indicate the correlation between the Excel cells and the parameter configuration panel:

- Excel cell G257 (Next test) is linked to the 'Next test' parameter.
- Excel cell F215 (Retest period) is linked to the 'Retest period' parameter.
- Excel cell E261 (Test date) is linked to the 'Test date' parameter.
- Excel cell D198 (Producer / Make) is linked to the 'Producer / Make' parameter.
- Excel cell C193 (Inventory No.) is linked to the 'Inventory No.' parameter.
- Excel cell B195 (Name) is linked to the 'Name' parameter.
- Excel cell A194 (Appliance ID) is linked to the 'Appliance ID' parameter.

Figure 3 Correlation between Excel & Parameter links

The figure illustrates the correlation between MESM, Excel, and Wizard. The top part shows an Excel spreadsheet with columns for ID number, Name, Inventory number, Producer / Make, Test Date, Retest period, and Next Test. The middle part shows the MESM interface with a tree view of the data and a 'Safety of LV Installations' dropdown menu. The bottom part shows the 'Wizard' settings for 'General Settings' and 'Structure objects Settings'.

Excel Data (Approximate):

ID number	Name	Inventory number	Producer / Make	Test Date	Retest period (in months)	Next Test
12830	Agregat malarski GX 21	HDGDD061611000	GRACO	15.3.2021	12	15.3.2022
12831	Agregat malarski GX 21	HSJNNCD5515457	GRACO	15.3.2021	12	15.3.2022
12832	Agregat malarski GX 21	JB8ZG554504550	GRACO	15.3.2021	12	15.3.2022
12833	Agregat malarski GX 21	HSJNNCD5515455	GRACO	15.3.2021	12	15.3.2022
12834	Agregat malarski GX 21	HSJNNCD5515112	GRACO	16.3.2021	12	16.3.2022
12835	Agregat malarski GX 21	A21817G183030295	GRACO	17.3.2021	12	17.3.2022
12836	Agregat malarski GX 21	L20817G183030274	GRACO	16.3.2021	12	16.3.2022
12837	Agregat malarski GX 21	A21817G183030328	GRACO	17.3.2021	12	17.3.2022
12838	Agregat malarski GX 21	L20817G1830302911	GRACO	16.3.2021	12	16.3.2022
12839	Agregat malarski GX 21	A21817G183030814	GRACO	17.3.2021	12	17.3.2022
12840	Agregat malarski GX 21	A21817G183030809	GRACO	17.3.2021	12	17.3.2022
12841	Agregat malarski GX 21	A21817G183030597	GRACO	15.3.2021	12	15.3.2022
12875	Agregat malarski GX 21	C21817G183033207	GRACO	15.3.2021	12	15.3.2022
12876	Agregat malarski GX 21	C21817G183033211	GRACO	15.3.2021	12	15.3.2022
12877	Agregat malarski GX 21	C21817G183033208	GRACO	15.3.2021	12	15.3.2022
12878	Agregat malarski GX 21	C21817G183033205	GRACO	16.3.2021	12	16.3.2022
12879	Agregat malarski GX 21	D21817G183035332	GRACO	17.3.2021	12	17.3.2022
12880	Agregat malarski GX 21	C21817G183033198	GRACO	16.3.2021	12	16.3.2022
12881	Agregat malarski GX 21	C21817G183033193	GRACO	17.3.2021	12	17.3.2022
12882	Agregat malarski GX 21	C21817G183033212	GRACO	16.3.2021	12	16.3.2022
12883	Agregat malarski GX 21	C21817G183033210	GRACO	17.3.2021	12	17.3.2022
12884	Agregat malarski GX 21	C21817G183033206	GRACO	17.3.2021	12	17.3.2022
12885	Agregat malarski GX 21	C21817G183033075	GRACO	15.3.2021	12	15.3.2022
12886	Agregat malarski GX 21	C21817G183033204	GRACO	15.3.2021	12	15.3.2022
13079	Agregat malarski GX 21	L20817G183030091	GRACO	15.3.2021	12	15.3.2022
13082	Agregat malarski GX 21	C21817G183033203	GRACO	15.3.2021	12	15.3.2022

Wizard Settings:

General Settings

- Number of lines to skip from top: 2
- Work scope 1st level: Safety of Electrical Equipment I
- Work scope 2nd level: PAT (new instruments)

Structure objects Settings

- Structure object type: Element

Figure 4 Correlation between MESM, Excel, and Wizard

The screenshot displays the Metrel ES Manager software interface. The main window shows a table with columns: Appliance ID, Structure Path, Name, Next test, Test date, and Status. The table contains one row with the following data:

Appliance ID	Structure Path	Name	Next test	Test date	Status
12831	Set-Name/Set-Name/...	Agregat malarski GX 21	15/03/2022	15/03/2021	Empty

On the left, the Tree View shows a hierarchy of sets. The 'Set-Name' folder is expanded, showing a list of sets with IDs 12831 through 12878. A red box highlights the 'Set-Name' folder and its contents.

On the right, the Properties panel shows the details for the selected set (Set-Name 12831). The properties include:

- Appliance ID: 12831
- Name: Agregat malarski GX 21
- Equipment User: HSIUNNCD515457
- Location (Room): HSIUNNCD515457
- Inventory No.: 15/03/2021
- Test date: 15/03/2022
- Retest period (in months): 12
- Next test: 15/03/2022
- Group: GRACO
- Producer / Make: GRACO
- Year of production: GRACO
- Nominal voltage: GRACO
- Nominal frequency: GRACO
- Nominal power: GRACO
- Fuse rating: GRACO
- Current: GRACO
- cos φ: GRACO
- No. of phases: GRACO
- Inspector: GRACO
- Test standard: GRACO
- Means of protection: GRACO
- Repairing code: GRACO

At the bottom, the Row Settings panel shows the configuration for the selected row. It includes fields for Structure object type, Parameter, Column letter, Allow null or empty, and Column type. The 'Parameter' field is set to 'Next test', and the 'Column letter' is set to 'A'. The 'Allow null or empty' checkbox is checked. The 'Column type' is set to 'Text'.

Red arrows indicate the correlation between the MESM and Wizard data. Arrows point from the 'Set-Name' folder in the Tree View to the 'Appliance ID' and 'Name' fields in the Properties panel. Arrows also point from the 'Next test' field in the Row Settings panel to the 'Next test' field in the Properties panel. Arrows point from the 'Test date' field in the Row Settings panel to the 'Test date' field in the Properties panel. Arrows point from the 'Status' field in the Row Settings panel to the 'Status' field in the Properties panel.

Figure 5 Correlation between MESM & Wizard