

# ***Import individual Ruska model piston-cylinder units and mass sets to COMPASS for Pressure***

**FLUKE**®

**Calibration**

*This procedure is intended for authorized personnel trained on the use of Ruska Piston Gauges, WinPrompt and COMPASS for Pressure software*

## **Purpose**

This document shows how to import a WinPrompt piston-cylinder or mass set file into COMPASS for Pressure. See additional files in this same section of the Fluke Calibration Knowledge Base, and the Application Note [“How to set up COMPASS® for Pressure software for use with Ruska Model 2400 piston gauges \(950.03 KB\)”](#)

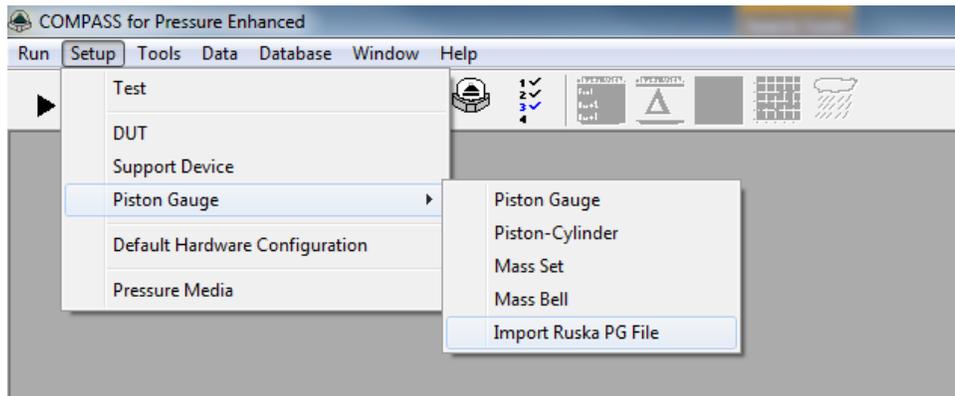
## **Notes**

This document also applies to all models of Ruska Piston Gauges used with WinPrompt.

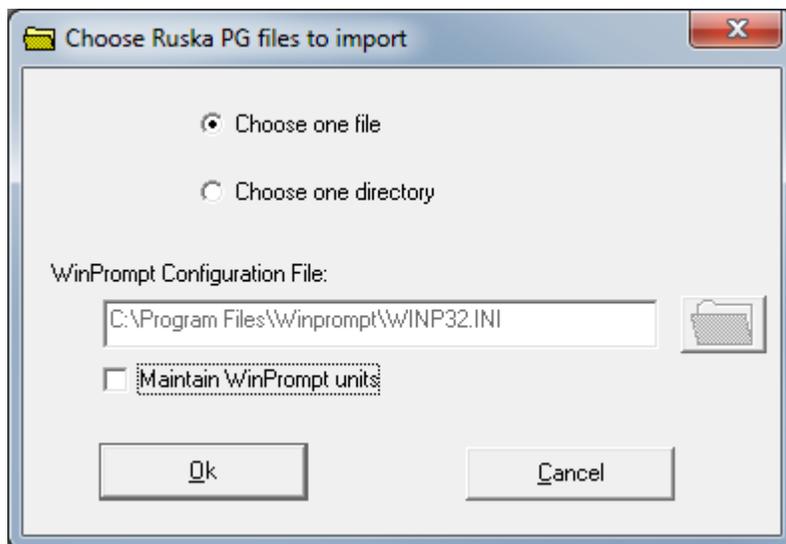
1. One user reported that the WinPrompt .PC files would not import into Compass with the naming convention of the .PC file. The calibration certificate number was removed from the .PC file name and the import then worked.
2. If the existing mass set already exists in COMPASS for Pressure you may have to rename it and change the serial number to import the new mass set (if the serial numbers are the same.) There was no error message, it just wouldn't import.
3. If you get an "Error when importing Ruska piston file: Type mismatch" there is likely an error (or formatting problem) with the date in the .pc or .ms file. For example, COMPASS will not work with a date like 8FEB2016, but will work if it's 8 FEB 2016. Almost any format is OK but some sort of delimiter is needed. Open the file in WinPrompt and correct the date. If you correct something, save the file as a different name then you should be able to import into COMPASS.
4. If you get an error, "The field is too small to accept the amount of data you attempted to add. Try inserting or pasting less data." then you probably tried to edit the date in Notepad. Open the original file in WinPrompt and edit the date.

## Instructions

Follow this path; [Setup], <Piston Gauge>, <Import Ruska PG File>.

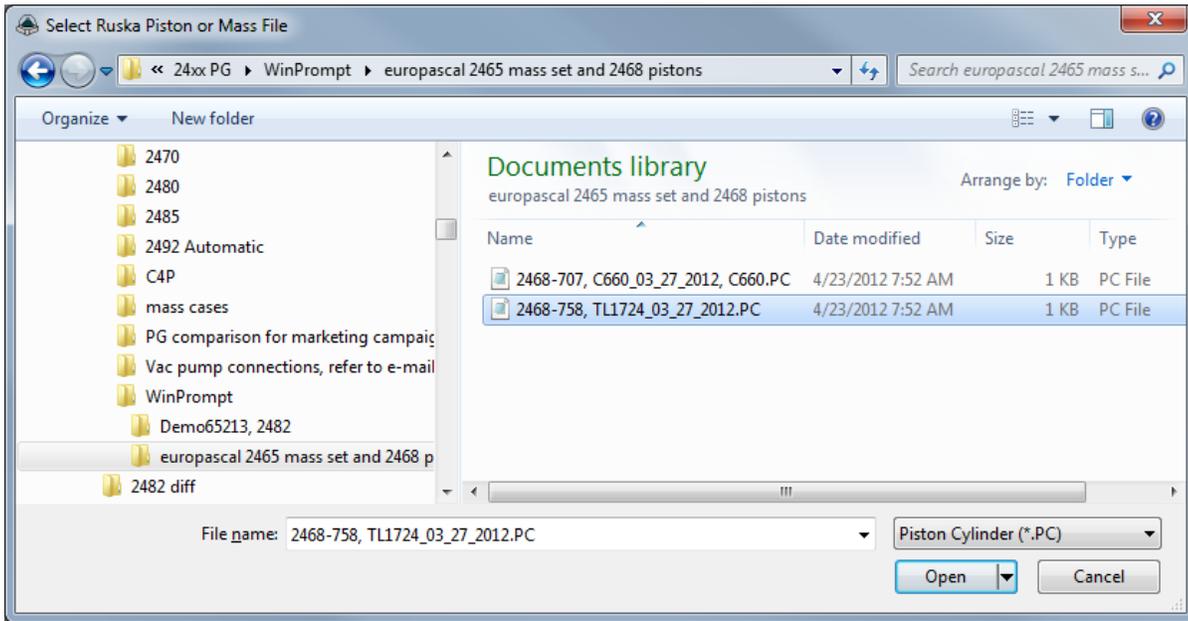


Select “Choose one file” or “Choose one directory” as appropriate.

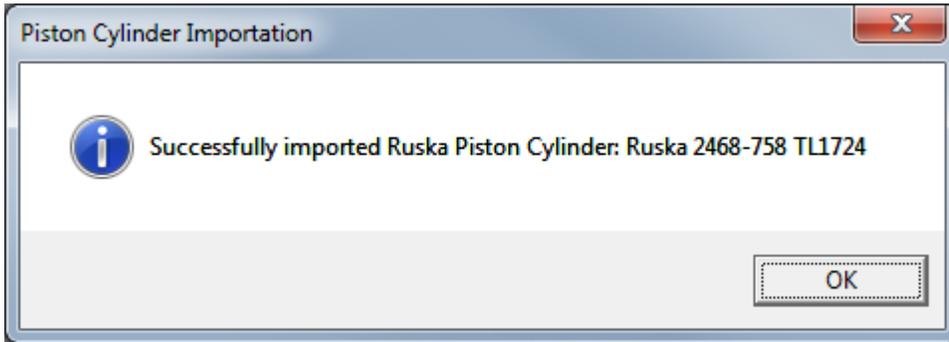


Leave “Maintain WinPrompt units” checkbox checked to maintain units in your WinPrompt file (if you have that). Otherwise values will be saved in SI units. It really doesn’t matter because values are shown in both English (psi, inches, etc.) and SI units (kPa, MPa, mm, etc.) on the calibration report so you can validate the imported values. To maintain units you will have to have the WinP32.ini file in the directory shown.

Press [OK] then choose the folder and file where the files are stored. Choose type in the drop-down box at bottom right (PC, MS, etc.) When importing a Ruska mass set from \*.MS file, the import wizard separates out mass #1 from the rest of the mass set and defines it as the Mass Bell (Sleeve mass).



Press [Open] to import.



## Result in English units

Piston-Cylinder Editor

Piston-Cylinder Label: Ruska 2468-758 TL1724

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Header | Calibration | Tolerance | **Characteristics**

Effective Area	5.203404E-1	in <sup>2</sup>	Piston Thermal Expansion	1.500E-5	/F
Temperature Reference	73.4	F	Cylinder Thermal Expansion	0.000E0	/F
Mass	4.799400E-2	kg	Pressure Expansion	0.000E0	/psi
Mass Resolution	0.0000001	kg	Pressure Expansion 2nd	0.000E0	/psF <sup>2</sup>
Average Density	7800	kg/m <sup>3</sup>	Reference Level Offset	0.000E0	in
Min Rotation Rate (RPM)	0		L1	1.783E0	in
Max Rotation Rate (RPM)	0		Surface Tension(N/m)	0	
			Max Sink Rate	3.307086614	in/min

Close

## Result in SI units

Piston-Cylinder Editor

Piston-Cylinder Label: Ruska 2468-758 TL1724

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Header | Calibration | Tolerance | **Characteristics**

Effective Area	3.357028E-4	m <sup>2</sup>	Piston Thermal Expansion	1.500E-5	/C
Temperature Reference	23	C	Cylinder Thermal Expansion	0.000E0	/C
Mass	4.799400E-2	kg	Pressure Expansion	0.000E0	/MPa
Mass Resolution	0.0000001	kg	Pressure Expansion 2nd	0.000E0	/MPa <sup>2</sup>
Average Density	7.8	g/cm <sup>3</sup>	Reference Level Offset	0.000E0	m
Min Rotation Rate (RPM)	0		L1	4.530E-2	m
Max Rotation Rate (RPM)	0		Surface Tension(N/m)	0	
			Max Sink Rate	0.00084	m/min

Close

*End of Procedure*

**Fluke Calibration.** Precision, performance, confidence.™

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