

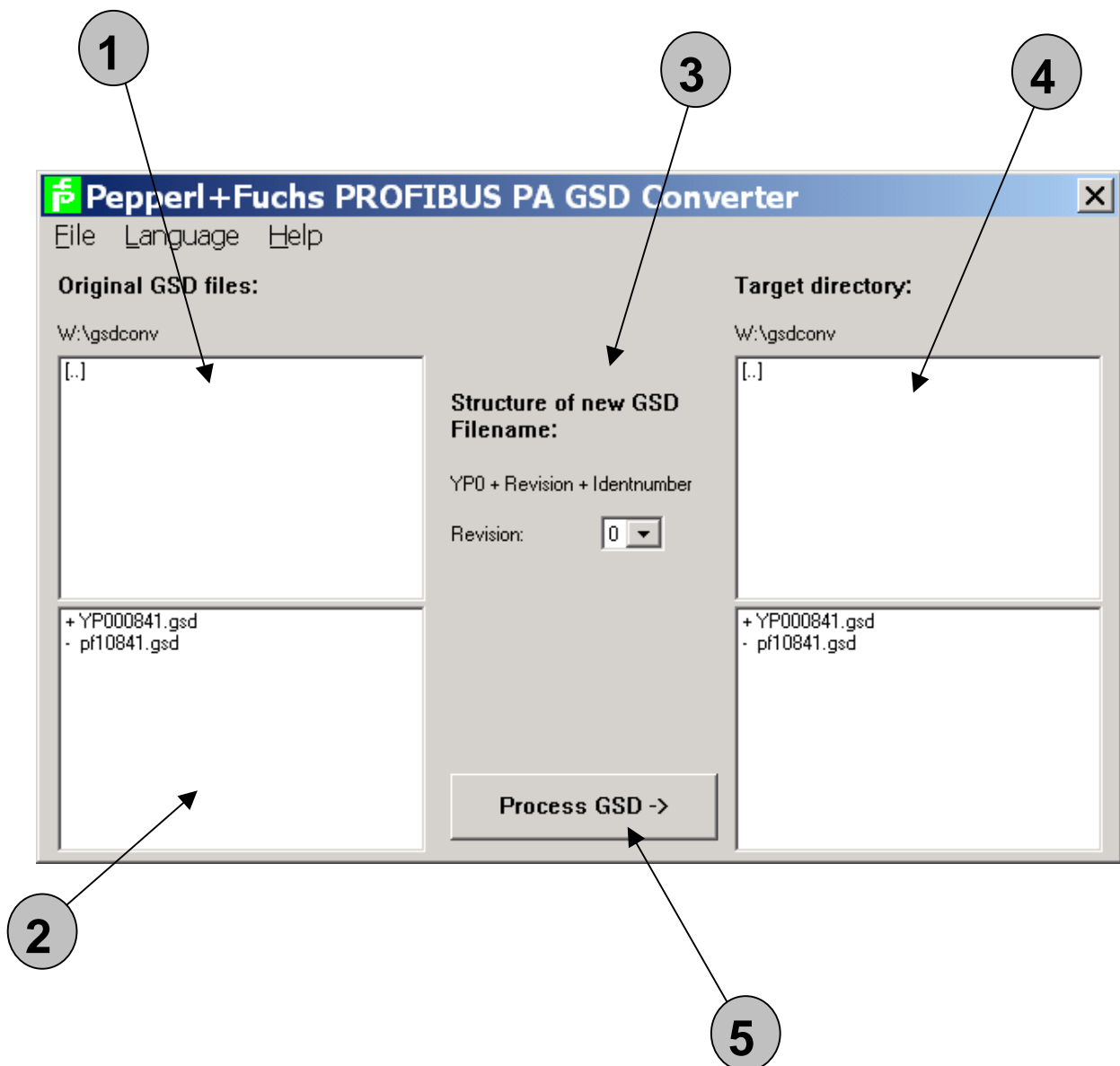
Operating instructions for the Pepperl + Fuchs GSD Converter

Introduction

The Pepperl+Fuchs second-generation segment couplers (SK2, type code KLD2-GT-...) provide a transparent connection between a PROFIBUS DP and one or more PROFIBUS PA segments. Because of this transparency, it is necessary that the baud rates supported by the SK2 and the associated bus parameters are entered in the GSD files of the PROFIBUS-PA field devices that are used, and that several general bus parameters are adapted for the operation of the SK2 (or generally, of a proxy). If the manufacturer of the field device does not provide an appropriate GSD file, this must be created on the basis of the GSD file for the operation of the field device with a first generation segment coupler (SK1). This procedure is automated by the GSD converter; i.e. it generates a GSD file for a SK2 from a GSD file for a SK1¹.

Operation

After starting the program (pfgsdconv.exe) the following dialogue appears:



¹ Only baud rates of 31.25kBit, 45.45kBit and 93.75kBit are listed in the GSD file for a SK1.

In order to convert a GSD file, proceed as follows:

1. Go into the directory in which the files to be converted are located.
2. Select the GSD files to be converted:
You can select one or more files to be converted (with Ctrl or Shift).
 - Files with a " + " in front of the file name are the result of a previous conversion and generate an error message on any attempt to convert them again
 - Files with a " – " are not the result of a conversion and can be convertedBy double clicking on a file you can open it for inspection and editing.
3. Determine how the file name of the GSD file you want to create is to be constructed:
The name of a PROFIBUS GSD file always has 3 parts:
 - The manufacturer-specific part (1- 4 characters). A manufacturer identification, e.g. "PF_" for Pepperl + Fuchs GmbH
 - The ident number (4 characters)
 - The file termination (e.g. .gsd)Profibus International has defined the manufacturer specific part of GSD files for Profibus PA devices that have been converted for use with transparent segment couplers up to 12Mbit. It consists of the string "YP0" and a version number. The version number can be selected from a drop-down menu so it is possible to distinguish between different versions of GSD files for the same field device (same ident number).
4. Go into the directory in which the converted files shall be stored.
5. Convert the GSD files.
You start the conversion process with this control field. Another window opens in which you are informed about the result of the conversion process.