

Supplementary documentation for the Operating Instructions

## Data exchange with Prosonic Flow 93T

Import CSV File into Excel



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Prosonic Flow 93T uses a text file format commonly referred to as a CSV format (Comma Separated Values) for its data exchange.

A logged data record is placed on one line. A record contains a number of fields (time stamp, measurement parameters, flow data, etc.). A delimiter – a blank space, semi-colon, comma, or other character that indicates the beginning or end of a field – is used to organize the fields into columns. A separator – usually a point (.) or a comma (,) – is used to identify the location of the decimal.

Prosonic Flow 93T uses the format semicolon (;) as field delimiter and point (.) as decimal separator. Adjustments may need to be made in spreadsheet software by setting the field delimeter and decimal separator correctly prior to importing the data from the flowmeter to ensure proper visualization of the data. The adjustments required are dependant on the local settings used by the PCs and Laptops in a particular region. In general, set the field delimiter to semi-colon (;) and the decimal separator to point (.) and the logged data will be converted to a format that is compatible with the numeric settings of the local PC or Notebook.

The Process how to import the data into Excel is described on the following pages.



Microsoft Excel - Book1         D<	Image: Second	<ol> <li>Open an empty sheet in Excel.</li> <li>Select <import data="" external=""> <import data=""> in the Data menu.</import></import></li> </ol>
Select Data Source Look in: E+H FLowtec LOGO01.csv History	? X • • • • • • • • • • • • • • • • • • •	<ul><li>Select Data Source</li><li>3. Select the file to be imported and open it.</li></ul>
Text Import Wizard - Step 1 of The Text Wizard has determined th If this is correct, choose Next, or d Original data type Choose the file type that best des © Delimited - Characters © Fixed width - Fields are d Start import at row: 1 Preview of file E:\LOG001.CSV. 1 WALL THICKNESS; 0 mm 3 DIPE DIAMETER; 220.6 s 4 CIRCUMFERENCE; 693 mm 5 SOUND VEL. PIPE; 3230 s	3 ? × at your data is Delimited. noose the data type that best describes your data. cribes your data: : such as commas or tabs separate each field. aligned in columns with spaces between each field. interpreting of the second	<ul> <li>Text Import Wizard - Step 1 of 3</li> <li>4. Mark the radio button <delimited>.</delimited></li> <li>5. Press <next>.</next></li> </ul>

	Text Import Wizard - Step 2 of 3
Text Import Wizard - Step 2 of 3	6. Select <semicolon> as field delimiter.</semicolon>
This screen lets you set the delimiters your data contains. You can see how your text is affected in the preview below.	7. Press <next>.</next>
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Text Import Wizard - Step 3 of 3	Text Import Wizard - Step 3 of 3: Assigning the
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Advanced Text Import Settings	9. Select the decimal separator to point ()
Settings used to recognize numeric data	10. Select the thoursands separator to comma ()
Sociality about or rocognico maniferio adda	11 Press <ok></ok>
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Thousands separator:	
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## Zusatzdokumentation zur Betriebsanleitung

## Datenaustausch mit Prosonic Flow 93T

Import CSV File ins Excel



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Prosonic Flow 93T verwendet für den Datenaustausch das Textdateiformat CSV (Comma Separated Values).

Die Datensätze werden zeilenweise aufgezeichnet. Ein Datensatz beinhaltet eine definierte Anzahl von Datenfeldern (Zeitstempel, Messparameter, Durchflussdaten etc.). Zur Trennung der Datenfelder (Beginn/Ende) wird ein Trennzeichen verwendet (z.B. Leerzeichen, Semikolon, Komma), das für die spätere Ausrichtung in Spalten verantwortlich ist. Zur Bestimmung der Dezimalstellen wird ein Punkt (.) oder ein Komma (,) als Textbegrenzungszeichen verwendet.

Prosonic Flow 93T verwendet als Feldtrennzeichen das Semikolon (;) und als Dezimalbegrenzungszeichen den Punkt (.). Um eine korrekte Darstellung der Daten sicherzustellen, müssen in der Tabellenkalkulationssoftware für die Feldtrennzeichen und Dezimalbegrenzungszeichen die passenden Einstellungen vorgenommen werden. Die Anpassungen sind abhängig vom länderspezifischen Einsatz der verwendeten PCs und Laptops.

Nachfolgend wird der Datenimport in Excel beschrieben.



Microsoft Excel - Mappe1                ⓐ Datel gearbeiten Arsicht Enflugen Formal Extrast                ⓑ B B B B B B B C D                ⓑ B B B B B B C D                ⓑ B B B B B B B B C D                10                  A B C D                1                  2              3                 4                 7                 8                 9                 10                 7                 10                 7                 10                 12                 13                 13                 15                 10                 7                 13                 12                     13                 10	Daten       Eenster       2       Adgbe PDF         2↓       Sorteren       Elter       +         Maske       Tglergebnisse       gültigheit         Tabelje       Tabelje       Iext in Spatten         gootfaberung und Glederung       +         2       PivotTable- und PivotChart-Bericht         Externe Daten importieren       +         2       Daten skituslisferen	Image:	<ol> <li>Neues Blatt in Excel öffnen.</li> <li><externe daten="" importieren=""><daten importieren=""> im Menü <daten> auswählen.</daten></daten></externe></li> </ol>
Datenquelle auswühlen Suben jn: (U) E.H.Flowtec Verlauf		A0013677_de	<ul><li>Datenquelle auswählen</li><li>3. Zu importierende Datei auswählen und öffnen.</li></ul>
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	Textkonvertierungs-Assistent - Schritt 2 von 3
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Trenzeichen ↓ Leerzeichen Andere:	
Datenvorschau	
WALL THICKNESS LINER THICKNESS PIPE DIAMETER 33.7 mm CIRCUMFERENCE SOUND VEL.PIPE 3120 m/s Abbrechen < Zurück Weiter > Fertig stellen	
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Textkonvertierungs-Assistent - Schritt 3 von 3       Image: Constraint of the second sec	Textkonvertierungs-Assistent - Schritt 3 von 3: Dezimalbegrenzungszeichen den länderspezifischer Einstellungen anpassen 8. <weitere> klicken. → Ein neues Fenster öffnet sich.</weitere>
Weitere Textimporteinstellungen       Image: Comparison of the second seco	<ul> <li>Weitere Textimporteinstellungen</li> <li>9. Punkt (.) als Dezimaltrennzeichen auswählen.</li> <li>10. Komma (.) als 1000er-Trennzeichen auswählen.</li> <li>11. <ok> klicken.</ok></li> </ul>

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St	andard	Standard			
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	Wo sollen die	Daten eingefügt werde	en?		$\rightarrow$ Der Import der Daten ist abgeschlossen.
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		ndes Arbeitsblatt.		Abbrechen	
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	詞 <u>PivotTa</u>	able Bericht erstellen	2		
	Eigenschal	ften Parameti	er Abfrage I	bearbeiten	
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					Beisniel einer in Excel imnortierten Prosonic Flow
1	A WALL THICKNESS	B 1.5 mm	C	D	CSV-Datei mit Grunddaten, Kopfzeile und Messwerten.
2	LINER THICKNESS	0 mm			
3	PIPE DIAMETER	33.7 mm			
4	CIRCUMFERENCE	105.9 mm			
5	SOUND VEL.PIPE	3120 M/S			
7	SOUND VEL.LINER	-			
8	TEMPERATURE	20 - C			
9	SENSOR DISTANCE	71.43 mm			
10	SENSOR CONFIG. WIRE LENGTH	- 2			
12	SERIAL NUMBER	C8044C02000			
13	TAG NAME	BOROKM10			
14	SYSTEM DATE/TIME	VOLUME FLOW CH1 m ^3/bl	SOUND VELOC. CH1 fm / d	FLOW VELOC, CH1 fm/sl	
10	19.03.2010 12:02	5,46864	1522,17	2,05152	
17	19.03.2010 12:02	5,49414	1522,13	2,00112	
18	19.03.2010 12:02	5,51619	1522,12	2,06944	
19	19.03.2010 12:02	5,53916	1522,1	2,07803	
20	19.03.2010 12:02	5,50289	1522,1	2,08094	
22	19.03.2010 12:02	5,60743	1522.00	2,07571	
23	19.03.2010 12:02	5,62641	1522,05	2,11092	
24	19.03.2010 12:02	5,64629	1522,06	2,1183	
1.95	10.02.2010.12-02	5 66721	1599.05	1 2 1 2 6 2 A0013688_de	