



USER GUIDE

Item#: FPTSOFT

OVERVIEW

Fire Pump Tester Software (FPT) is a tool used to organize and collect information on fire pumps and fire pump flow tests. FPT software produces reports and pump test curves for analyzing your data.

FPT is designed to help organize and collect fire pump data in a professional and comprehensive manner. The program produces PDF reports that can then be printed out or emailed to the customer or property manager.

All your Data is securely stored in the cloud which allows it to be accessed on any device with an internet connection.

Multiple users within your company may access the data. The program is organized so that each customer may have several different properties known as jobsites. For each jobsite you may have one or more fire pumps. Lastly, each fire pump may have several different work orders attached to it. Each work order is a record of previous inspection, testing, and maintenance results organized by the date of that work.

QUICK START GUIDE

The login page for Fire Pump Tester Software is: <http://firepumptester.flowtest.com/login>. It is a good idea to bookmark this webpage for easy access. The following is a quick-start guide on how to use FPT right away. The subsequent sections offer more detail.

A. Login/Sign up:

- Enter in your username and password. New users click Sign Up.

B. Add a New Customer:

- Click Add customer. Enter customer Information. Click Save.

C. Add a Job Site:

- Click Add Job Site located on the left-hand side of screen. Enter Job Site Information. Click Save.

D. Add a New Fire Pump:

- Click Add Fire Pump located on the left-hand side of screen. Enter Fire Pump Information. Click Save.

E. Add a Work Order:

- Click Add Work Order located on the left-hand side of screen. Enter Work Order (test results) Information. Click Save.

F. Generate a Report:

- Click Generate Report at the top of the page. Select which pages of the report to print. Click Generate.

FPTS AT A GLANCE

Customers – Enter customer information, job site information, and fire pump information.

Download Work Order – Download a blank work order form which you can use to write in the fire pump test results while at the job and then enter in the data when you get back from the field.

View Personal Profile – Update your personal information and your login password here. Click the pencil symbol to edit your personal information then click the checkmark to save.

View Company Profile – Add your company information and your company logo here. This information will appear on your customer reports when printed. Click the pencil symbol to edit your personal information then click the checkmark to save.

The screenshot shows the 'Fire Pump Tester' web application interface. At the top, there is a dark brown header with the title 'Fire Pump Tester' on the left and a 'logout' link on the right. Below the header, there are three buttons: 'View Personal Profile', 'View Company Profile', and 'Download Work Order'. Underneath these buttons, there is a profile section for 'Patrick - patrick@flowtest.com' at 'Hydro Flow Products, Inc.', accompanied by a logo for 'THE NOSE MONSTER' featuring a green snake. Below the profile section, there is a 'Customers' section with a list of customer names: 'Acme Corp', 'Prestige Industries', and 'Sample Customer'. An 'Add Customer' button with a plus icon is located at the top of this list.

ADD A USER TO YOUR ACCOUNT

Adding a new user to your account allows you to invite that person to access and edit the same data associated with your account.

Click View Company Profile. Click the symbol below:



Click Add User. Enter the user's email, name, and phone number. Click Save.

An email with signup instructions will be sent to the person you are adding.

GETTING STARTED: ADD A CUSTOMER

From home screen select Add Customer.

Enter in the customers contact info. This will be their main office or headquarters. This does not need to be the fire pump or jobsite address. Note: A customer may have multiple job sites or properties. You do not need to add a new customer for each property.

Select Save

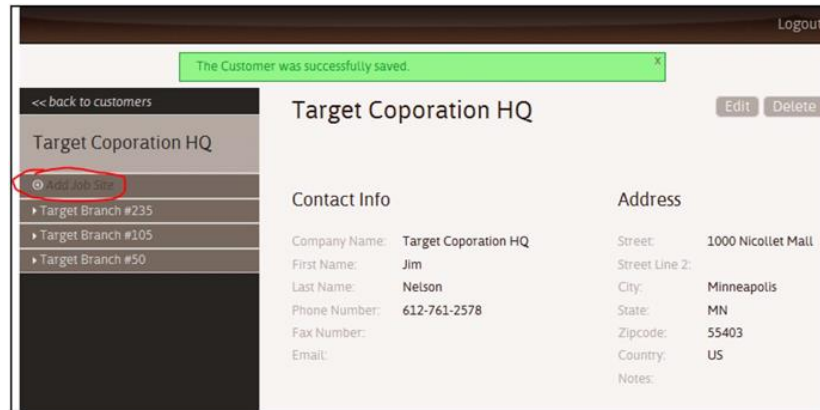


ADD A JOBSITE

A jobsite should be created for each property you will be testing. On the left navigation pane select Add Job Site. Note: You can add multiple fire pumps to each jobsite.

Enter in the property address and the contact information of the building representative.

Select Save when complete.



ADD A FIRE PUMP

In the navigation pane on the left side of your screen select Add Fire Pump.

Enter the Pump ID. The Pump ID can be any code or text you use to identify the pump and will display in the left navigation pane. This is a required field.

Fill in remaining fields as applicable. Note: The only required field is the pump ID; all other fields are optional. Our forms were designed to be comprehensive so it could be used and accepted by all AHJ's. For the pump graphs to display the curves correctly, it is important that the following fields be filled in: Rated Capacity, Head at Churn, Head at Rated, Head at Overload, and Rated Speed. All other fields may be filled in at your own discretion.

Select Save when complete

The screenshot shows a 'New Fire Pump' form. It is divided into three main sections: 'Fire Pump Information', 'Fire Pump Controller', and 'Jockey Pump'. The 'Fire Pump Information' section includes fields for Pump ID, Pump Type (with radio buttons for Horizontal, Vertical In-line, Vertical Turbine, and End-Suction), Manufacturer, Model, Serial Number, and a 'Listed' checkbox with options for FM, UL, and ULC. It also has input fields for Rated Capacity (GPM), Total Dynamic Head (ft), Head at Churn 0% (PSI), Head at Rated 100% (PSI), Head at Overload 150% (PSI), and Rated Speed (RPM). The 'Fire Pump Controller' section includes fields for Type, Manufacturer, Model, Serial Number, Rated HP, Phase, Cycles, Rated Voltage, On PSI, Off PSI, and Run Timer Setting (min). The 'Jockey Pump' section includes fields for Manufacturer, Model, and Serial Number.

ADD OTHER PUMP INFORMATION

If there is a fire pump field that you would like to add because it is not included in the software's current form, select the plus sign next to Other Pump Information. You can add notes or any other information that you think is relevant here.



Other Pump Information 

Notes: Fire Pump is located in 

Last Calibration Date: 12/20/2012 

Gauge Type: Liquid Filled, 1/2% acci 

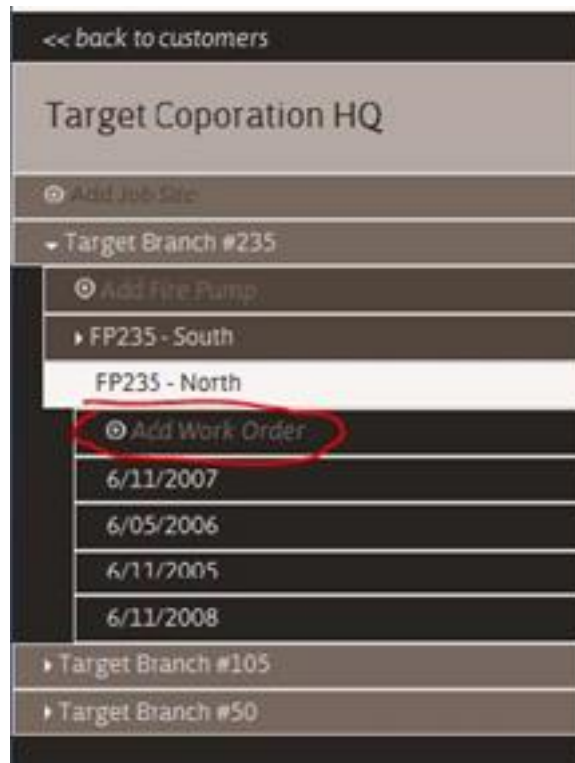
ADD WORK ORDER

In the navigation pane on the left of your screen select add work order. Previous work orders for a given fire pump are displayed in this area.

Enter in the date of the test, type of test – such as annual, weekly, or acceptance test, and the remaining fields.

Select Save

At this point you can select customer report, print it, and bring this work order to the job with you to record the flow test results.



<< back to customers

Target Coporation HQ

- ⊕ Add Job Site
- ▾ Target Branch #235
 - ⊕ Add Fire Pump
 - FP235 - South
 - FP235 - North
 - ⊕ Add Work Order
 - 6/11/2007
 - 6/05/2006
 - 6/11/2005
 - 6/11/2008
- Target Branch #105
- Target Branch #50

ENTER FLOW TEST RESULTS

Adding Test Points

Each test point refers to data taken at churn, rated, or peak flows; however, there is no limit on the number of test points and there can be more than three.

Select Add Test Point.

Begin by entering the RPM (Pump Speed). Enter discharge pressure, suction pressure, streams, volts, and amps. Be sure to click the save button after entering in the fields.

Tip: For ease of data entry press ‘tab’ on your keyboard to move to the next field

RPM	Disch	Suct	Net	Streams Flow device / PSI / GPM	Flow GPM	% Rated Capacity	Volts	Amps	Flow %	Corrected Pressure	
3574	164	44	120.0	Device: PSI: GPM:	0.0	0.0	490 495 493	76 80 82	0.0	115.1	
3570	150	44	115.0	Device: HMNI1.75-HM2H PSI: 8.0 GPM: 251.8	519.0	51.9	487 491 488	82 85 87	50.9	111.5	
3566	155	44	111.0	Device: HMNI1.75-HM2H PSI: 18.0 GPM: 377.8	755.5	75.5	486 489 487	88 92 95	74.2	108.9	
3561	144	42	102.0	Device: HMNI1.75-HM2H PSI: 33.0 GPM: 511.5	1030.7	103.1	484 487 485	95 99 101	101.3	98.5	
3561	114	36	78.0	Device: HMNI1.75-HM2H PSI: 26.0 GPM: 454.0	1387.8	138.8	483 487 485	94 98 100	136.4	75.4	
3563	99	34	65.0	Device: HMNI1.75-HM2H PSI: 32.0 GPM: 503.7	1534.4	153.4	483 487 485	94 98 100	150.7	62.7	

Adding Streams

Streams refer to the number of hose lines that you are flowing. For Churn, leave this field blank.

Select +Add Stream.

Select flow device. Choose your flow device from the list of devices.

Select Add Stream to add additional flow test points. Note: Each flow device has a unique k-factor that is used to calculate flow-rates. When adding additional streams the program automatically assumes you are still using the same flow test device. You can select a different flow test device for each individual stream by pressing the k-factor number in blue font. The k-factor also serves as a shorthand abbreviation of the flow test device that is selected.

Enter the psi reading for each individual stream.

Enter the volts and amperes.

Select Save after entering in the test point data. After clicking Save the gray-colored fields will perform their calculations.

Flow Devices

Hydro Flow Products may add devices that are newly developed or not on the current list. The Min PSI and Max PSI refer to the operating range of the flow devices. Although the program will still calculate flows outside the psi range, the calculations are less accurate outside the psi operating range. For example: if you got a 7 psi on a 2 1/2" Hose Monster, you may be better off with a smaller nozzle size such as 1 3/4" because the operating range of this device is from 10 to 75 psi.

Note: The Pitotless Nozzles will have a slightly different flow calculation depending on whether it is discharged into open atmosphere, the 2 1/2" Hose Monster Steel, or The Little Hose Monster. Be sure to choose the correct flow device.

category	name	k factor	min PSI	max PSI	abbreviation
Hose Monster	1 1/8" Nozzle Insert (HM2H)	37.36	10.0	75.0	HMNI1.125-HM2H
Hose Monster	1 3/4" Nozzle Insert (HM2H)	89.04	10.0	75.0	HMNI1.75-HM2H
Hose Monster	2 1/2" Hose Monster (HM2H)	168.67	10.0	75.0	HM2H
Hose Monster	4 1/2" Hose Monster (HM4H)	331.07	10.0	75.0	HM4H
Hose Monster	4" Hose Monster (HM4)	339.65	10.0	75.0	HM4
Hose Monster	BigBoy Hose Monster	376.0	11.0	36.0	HMBB4
In-line Pitotless Nozzle	1 1/8" In-line Pitotless Nozzle	38.4	5.0	70.0	INPN1.125
In-line Pitotless Nozzle	1 3/4" In-line Pitotless Nozzle	109.9	5.0	80.0	INPN1.75
In-line Pitotless Nozzle	2" In-line Pitotless Nozzle	165.3	10.0	75.0	INPN2
Pitotless Nozzle	1 1/8" Pitotless Nozzle + 2 1/2" Hose Monster Steel	37.4	5.0	90.0	PN1.125-HM2H
Pitotless Nozzle	1 1/8" Pitotless Nozzle + Little Hose Monster	37.2	5.0	90.0	PN1.125-HML
Pitotless Nozzle	1 1/8" Pitotless Nozzle + Open Atmosphere	37.0	5.0	90.0	PN1.125-ATM
Pitotless Nozzle	1 3/4" Pitotless Nozzle + 2 1/2" Hose Monster Steel	106.6	10.0	90.0	PN1.75-HM2H
Pitotless Nozzle	1 3/4" Pitotless Nozzle + Open Atmosphere	109.7	10.0	90.0	PN1.75-ATM
Pitotless Nozzle	1" Pitotless Nozzle + 2 1/2" Hose Monster Steel	27.6	3.0	90.0	PN1-HM2H
Pitotless Nozzle	1" Pitotless Nozzle + Little Hose Monster	27.2	3.0	90.0	PN1-HML
Pitotless Nozzle	1" Pitotless Nozzle + Open Atmosphere	27.7	3.0	90.0	PN1-ATM
Pitotless Nozzle	2" Pitotless Nozzle + Open Atmosphere	167.2	10.0	70.0	PN2-ATM
Pitotless Nozzle	2" Pitotless Nozzle + 2 1/2" Hose Monster Steel	164.8	10.0	80.0	PN2-HM2H
Pitotless Nozzle	2" Pitotless Nozzle + Little Hose Monster	156.0	10.0	70.0	PN2-HML
Pitotless Nozzles	1 3/4" Pitotless Nozzle + Little Hose Monster	104.7	10.0	90.0	PN1.75-HML

Flow Meter - Enter your GPM Flow

Enter your own GPM

At a given test point, you have the option of entering your GPM flow-rate rather than having the program calculate the flow-rate. When selecting a flow device select “Flow Meter – Enter Your GPM Flow”. Enter in the GPM you observed during the test. Click Save

Abbreviations in the Flow Test Results Table

Abbreviation	Description
RPM	Fire Pump Speed measured in RPM. Usually taken from a tachometer.
Disch	Discharge Pressure in psi
Suct	Suction Pressure in psi
Net	Net Pressure in psi. Computer calculated.(discharge pressure minus suction pressure)
K-Factor	A coefficient that is used to calculate the water flow-rate for a given flow device.
Total Flow	The total flow in GPM for the test point.
% Rated Capacity	= (Total Flow during test / Rated Capacity)*100. Allows you to compare your flow to the rated capacity of the pump.
Volts	Voltage
Amps	Amperes
Corrected Flow	The flow when corrected to the rated speed of the pump.
Corrected Pressure	The Head when corrected to the rated speed of the pump.

C

CREATING A CUSTOMER REPORT

Select Customer Report in the upper right of your screen.

Select which pages you want to appear in report by checking appropriate box

Print Options:

- Show Title Page?
- Show Customer Information?
- Show Fire Pump Information?
- Show Test Results?
- Show Pump Test Graph?

Display Curves:

- Show Pump Design Curve?
- Show Net Head Curve?
- Show Discharge Curve?
- Show Performance Corrected Curve?
- Show Ampere Curve?

Generate Cancel

Select Generate.

The Customer Report will be generated in pdf format. You may then save, email, or print the customer report using Adobe Acrobat. Download the free software 'Adobe Reader' if you do not have Adobe on your computer. Go to adobe.com

Click the back button on your browser to return to the Flow Test Results page.

Save your report - Click the disk icon to save the pdf file onto your computer.

Print your report - Click the print icon to print the customer report.

Email the report - Click the email icon. Alternatively, you can save the report then attach the file to your email.

Test Results

Date of Test:	07/1/2008
Type:	Annual Flow Test
Fire Department Attendee:	Lt. John Scully
Building Representative Attendee:	Mike Lincoln
Testing Firm Attendee:	Dan Kelly
Pump Manufacturer Attendee:	
Flow Device Used:	1 3/4" Nozzle Invert (HMGH)
Other Information:	Test was performed with the 2 1/2" Inlet, Hose Monster using a 1 3/4" Inlet for all hose streams. Test went smoothly.

PPE	Pressures			Streams					Flow			Connect			
	Deck	Back	Net	Flow	1	2	3	4	5	Total Flow	% Rated Capacity	Volume	Angle	Flow	Press.
1530	100	50	126.0							0.0	0.0	1 404	1 77	0.0	126.0
				Inlet								2 400	2 77		
				PSI								2 400	2 77		
				SPM	80.0	80.0	80.0			200.0	101.7	1 400	1 200	133.2	116.2
1180	150	65	113.0									2 400	2 200		
				Inlet								2 400	2 200		
				PSI	50	50	50					2 400	2 200		
				SPM	870.1	870.1	870.1					2 400	2 200		
1180	125	30	85.0									1 200	1 200	137.2	85.0
				Inlet								2 400	2 200		
				PSI	50	50	50	50	50	214.0	107.1	1 200	1 200	137.2	85.0
				SPM	820.0	820.0	820.0	820.0	820.0			2 400	2 200		

QUESTIONS OR COMMENTS

Please call us at 888-202-9987 or email service@flowtest.com.

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