

TESCO Field Fast is a software package that interfaces to TESCO field test kits. It provides direct control of the standard in the test kit, allowing the user to quickly and conveniently enter the settings for a test. It also contains tables of standard meter configurations and test sequences. The user may select a standard meter type from a list, which then auto-populates the meter attributes. If your organization normally runs a standard series of tests, such as Full Load then Light Load, for example, you can preconfigure the software with these, and the user selects a standard sequence, and will be prompted to run each test.

Starting the software

When you first run the software, you must select the serial port to be used to communicate with the test kit, and then press connect to establish communication.

The serial port may be built in to the computer (this is true of all Panasonic Toughbook computers) or it may be a USB to serial adaptor. Important: Only USB adaptors approved by TESCO may be used – many adaptors do not implement the full serial command set and will not work with Field Fast. Please consult with TESCO before purchasing an adaptor.

If you neglected to plug the USB serial adaptor in before starting the software, it will not appear on the list. Insert the adaptor, wait for it to be recognized, and click the green refresh button to update the list. The software will default to last-used serial port, unless that port is no longer present.

TESCO Field Fast (Version: 2011.1)	0.25.1]					868
Test Kit	Meter Settings			Meter Test Set	lings	
COM18 🔤 🎽 🔯 🔯	Meter #		+++	Revolutions	1	Run
Connect	Form	Meter Elements	-	Power	1.0	Cancel
Clear	Kh 0.1 C	Current Elements		Test		Save
				AF/AL		•
Rpt Meter#		Form Kh Revs	PF Test	AF/AL Wh	% Err	% Reg Volts
	to the last use	a senai port.				
	The current shown on the	status is always he bottom line.				



Entering the meter number

The status field on the bottom of the screen will show "CONNECTED" once the software has been able to communicate with the test kit. If the status is "COMMUNICATION ERROR" then check your connections and try again. If you are still having communication errors, you should exit the software, disconnect and reconnect the serial adaptor, and restart the software.

Once you are connected to the test kit, you may enter the meter number. You may also enter the meter attributed directly, field by field, or you may select from a standard list, described later.





Entering the meter attributes

Once the meter number is entered, the ellipse (...) button is enabled. This button is used to select the meter attributes from a list of standard meter types.

est Kit	Meter Se	ittings	Meter Test Set	lings		
COM18 🚽 🔯 🔯	Meter #	1234567890	Revolutions	1	10	Run
Connect	Form	Meter Elements	Power	1.0		Cancel
Clear	Kh	0.1 🧯 Current Elements	Test		*	Save
			AF/AL		-	
Rpt Meter #		Form Kh Revs P	F Test A AL Wh	% Err	3	Reg Vo
		Once you enter the number #, y	ou may either enter the meter	attribute	s	
		directly or use the "" button to s	elect from a list of standard m	eter type	25.	
					_	
					ľ	

ISCO Field Fa	st [Ven	tion 2011.10	25.11						
Test Kit	-		Meter Settings				101	Meter Test Settings	-
COM18	Meter	Profiles							Run
Co		Code	Description	Form	Kh	#ME	#CE	Test Sequence	Cancel
C	•	AM	AM Configuration	35	1.8	3.0	3		Save
		AR	AR Configuration	35	1.8	3.0	3	SCG&E	
		SA	SA Configuration	16S	1.8	3.0	3	PG&E	
Rpt M									Rea Vo
			arrow keys to select, Sequence, you will t	or click on be pro <mark>m</mark> pti	an entry. ed to begin	if the entr	ry included (s) immedi	a Test ately.	
	Co	de: AM		ОК	_	ancel]		
	_								



Running the test

If you are running a standard test sequence, either because the meter profile included a test sequence, or because you selected a test sequence directly, you will be prompted to run each test.

Please note that the software does not change the load settings on the test kit – you must manually select the appropriate settings. The test sequence determines the type of test, number of revolutions, and the power factor, if applicable. The Power Factor field is only open for test type PF.

The software will cycle through each of the tests in the sequence. Each test shows X/Y in the dialog box, where X is the current test and Y is the total number of tests in the test sequence. You may cancel at any time – the results of the tests already completed within the test sequence will be kept. If you need to interrupt a test sequence, and then wish to run the sequence again, simply select the test sequence using the "…" button on the right. You may also run whatever individual tests you wish, in any order, by selecting the appropriate parameters and pressing the Run button.





Interrupting the Test

Once the test begins, only one button is active – the "Cancel" button. Pressing this button will send the appropriate commands to the test kit to abort the in-progress test, and reset the software.

During the test, the status line will display the remaining revolutions in the current test.

Test Kit Meter & Settings Meter # 1234567890 Revolutions 10 Run Connect Form 16S Meter Elements 3.0 Power 1.0 Cancel Clear Kh 1.8 Current Elements 3 Power 1.0 Cancel Rpt Meter # Form Kh Revs PF Test AF/AL Mheter % Reg Volts During the test, the remaining revolutions are shown. You may cancel the test at any time by clicking Cancel. During the test, the remaining revolutions are shown. You may cancel the test at any time by clicking Cancel.	TESCO Field Fast [Version: 2011.1	0.25.1]		
COM18 Image: Connect of the connect	Test Kit	Meter Settings	Meter Test Settin	gs
Connect Form 16S Meter Elements 3.0 Power 1.0 Cancel Clear Kh 1.8 Current Elements 3 Power 1.0 Cancel Rpt Meter # Form Kh Revs PF Test AF/AL Wh % Err % Reg Volts During the test, the remaining revolutions are shown. You may cancel the test at any time by clicking Cancel. Surve and the test at any time by clicking Cancel. Surve and the test at any time by clicking Cancel.	COM18 🍸 🛃 💽	Meter # 1234567890	Revolutions 1	0 🗯 Run
Clear Kh 1.8 Current Elements 3 Test FL Save Rpt Meter # Form Kh Revs PF Test AF/AL Wh % Err % Reg Volts During the test, the remaining revolutions are shown. You may cancel the test at any time by clicking Cancel.	Connect	Form 16S Meter Elements 3.0	Power 1	.0 Cancel
Rpt Meter # Form Kh Revs PF Test AF/AL Wh % Err % Reg Volts During the test, the remaining revolutions are shown. You may cancel the test at any time by clicking Cancel.	Clear	Kh 1.8 Current Elements 3	Test F	-L Save
Rpt Meter # Form Kh Revs PF Test AF/AL Wh % Err % Reg Volts During the test, the remaining revolutions are shown. You may cancel the test at any time by clicking Cancel. Second			AF/AL	F •
During the test, the remaining revolutions are shown. You may cancel the test at any time by clicking Cancel.	Rpt Meter #	Form Kh Revs PF T	est AF/AL Wh %	Err % Reg Volts
METER TEST IN PROCRESS, REVOLUTIONS LEET 0		During the test, the remaining revolutions are show cancel the test at any time by clicking Can	n. You may cel.	

TESCO Field Fast [Version: 2011, 1	0.75.1]					. 🛛 🛛
Test Kit	Meter Settings			Meter Test Set	tings	
COM18 · 🛃 🙆	Meter # 1234567890		10	Revolutions	10	Run
Connect	Form 16S M	Veter Elements	3.0 -	Power	1.0	Cancel
Clear	Kh 1.8 2 Cu	irrent Elements	3 9	Test	LL .	Save
				AF AL	AL	
Rpt Meter #	F	Form Kh Revs	PF Test	AF/AL Wh	% Err	% Reg Volts
METER TEST IN PROCES	Pressing ca	Are you sure you want to <u>Yes</u> <u>No</u> ancel brings up a dia	alog box to c	onfirm.		
The fact the of start to drite	Souther SEG HOIRS EE					



Completing the Test Sequence

Once the first test in the test sequence is completed, you will be prompted to begin the second test. Be sure to adjust the load and/or power factor as required for the next test. The parameters for the test are shown on the underlying screen.

If you decide not to run the next test, simply press Cancel to abort.





Deleting Individual Test Runs

Each test run may be deleted by clicking on the recycle icon. Delete tests are completely removed from the results. You should use this only if the test run was not valid.

You may also flag a test run as "not reportable." By default, all test runs are reportable. You may use this option if you want to run extra tests, such as single element tests, customer load tests, or other tests which will assist you in determining how the meter is operating, but do not want to include these tests in the data used to adjust billing.





Saving the Results

Once you have tested a meter, you may either save the results to a file, or erase them by using the Clear button. If the software has been configured to save the results for each meter in a separate file, then you will not be able to enter a new meter number until after you save or clear.

The location, name, and format of the data file are determined by the configuration of the software. Usually the file name includes the meter number and a date-time stamp to make it unique.

ISCO Field Fast [Version: 2011.1	0.25.1]								. *
Fest Kit	Meter Settings			Mete	r Test Set	tings			
COM18 🗧 🔯 🧕	Meter # 1234557	890		Re	volutions	1		Run	
Connect	Form 16S	Meter Elements	3.0		Power	1.0		Cance	61
Clear	Kh 1.8	Current Elements	3		Test	LL	~ [Save	
^					AF/AL	AL	- [
Rpt Meter #		Form Kh Revs	PF Te	st AF/AL	Wh	% Err	%	Reg	Volts
1234567890		16S 1.8 10	1 FL	AF	17.9971	0.015	59 10	00.0159	121
		No		- Info					
	After pressing	Clear, this prompt app	ears to cor	firm your ac	tion.				
TER TEST COMPLETE	D						_		

D TESCO Field Fast (Version: 2011, 1	925(1)					6	
Test Kit	Meter Settings		44	Meter Test Set	ings		
COM18 👻 🔯 🔯	Meter # 1234567890			Revolutions	1 5	Run	
Connect	Form 16S Mete	r Elements 3.0		Power	1.0	Cance	le.
Clear	Kh 1.8 Curren	t Elements 3		Test	LL -	Save	
				AF/AL	AL -		
Rpt Meter #	Form	h Kh Revs PF	Test /	AF/AL Wh	% Err	% Reg	Volts
1234567890	16S	1.8 10 1	FL /	AF 17.9971	0.0159	100.0159	121
2 🙆 1234567890	Infermation			1.7996	0.0180	100.0180	122
	Assuts exported s	uccesduly to 1224567890	201100111	302.ov			
METER TEST COMPLETE	Clicking Save stores the r are determined by the	esuts in a file. The configuration setting	location a gs for Fie	nd file type Id Fast			



Testing the Next Meter

Once you have saved (or cleared) the results for a meter, you may enter the next meter number. The same options are available to you – you may select a standard meter profile, or you may enter the meter attributes directly. You may enter the test parameters directly, or use the Test Profiles to select a standard sequence of tests.

** TESCO Field Fast [Version: 2011.1	0.25.1]					
Test Kit	Meter Settings			Meter Test Set	tings	
COM18 🔮 🛃 🧕	Meter #			Revolutions	1	Run
Connect	Form 16S	Meter Elements	3.0 🖌	Power	1.0	Cancel
Clear	Kh 1.8 🗯	Current Elements	3 🖌	Test	LL	Save
				AF/AL	AL	·
Rpt Meter #		Form Kh Revs	PF Test	AF/AL Wh	% Err	% Reg Volts
	ince the test results are	saved or cleared, you m	ay lest anoth	er meter.		
METER TEST COMPLETE	D					

Test Kit	Meter Settings		Meter Tes	t Sett	ings		
COM18 👻 🛃 🔯	Meter Test sequences			ons	1	0	Run
Connect	Test Seque	ance # of Tests		ver	1.0		Cancel
Clear	PG&E	2		est	LL	*	Save
	SCG&E	6		AL	AL	-	
Rpt Meter #	-				% Err	%	Reg V
				_			
			/				
	Meter Test Sequence m	ay be selected directly from	n the "" button on the ri	ight,	1		
	. Meter Test Sequence m	hay be selected directly from	n the "_" button on the ri	ight.			
	. Meter Test Sequence m	hay be selected directly from	n the "_" button on the ri	ight.			
	Meter Test Sequence m	hay be selected directly from	n the ".," button on the ri	ight.			
	Meter Test Sequence m	hay be selected directly from	n the "_" button on the ri	ight.			
	Meter Test Sequence m	hay be selected directly from	n the "_" button on the ri	ight.			