

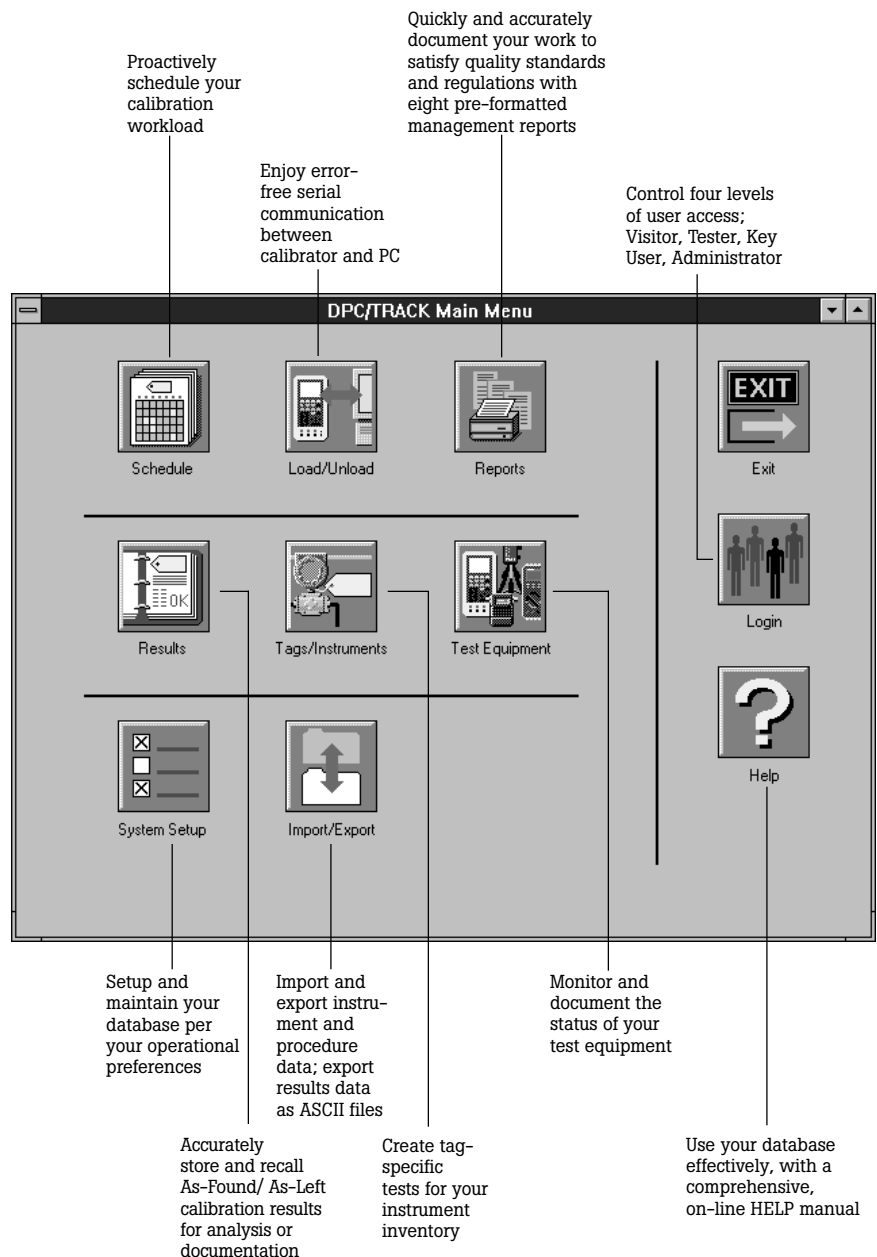
## DPC/TRACK Software For the Fluke 740 Series Documenting Process Calibrators

### Technical Data

DPC/TRACK is a powerful data base for the management and maintenance of process control instrumentation. Used in conjunction with a Fluke 743, 744 or 702 DPC (Documenting Process Calibrator), DPC/TRACK offers:

- A user-friendly environment for scheduling calibrations and creating test procedures
- Fast, automatic execution of tests and calibrations
- Consistent, accurate capture of instrument calibration data
- Thorough, cost-effective documentation of instrument maintenance and calibrations

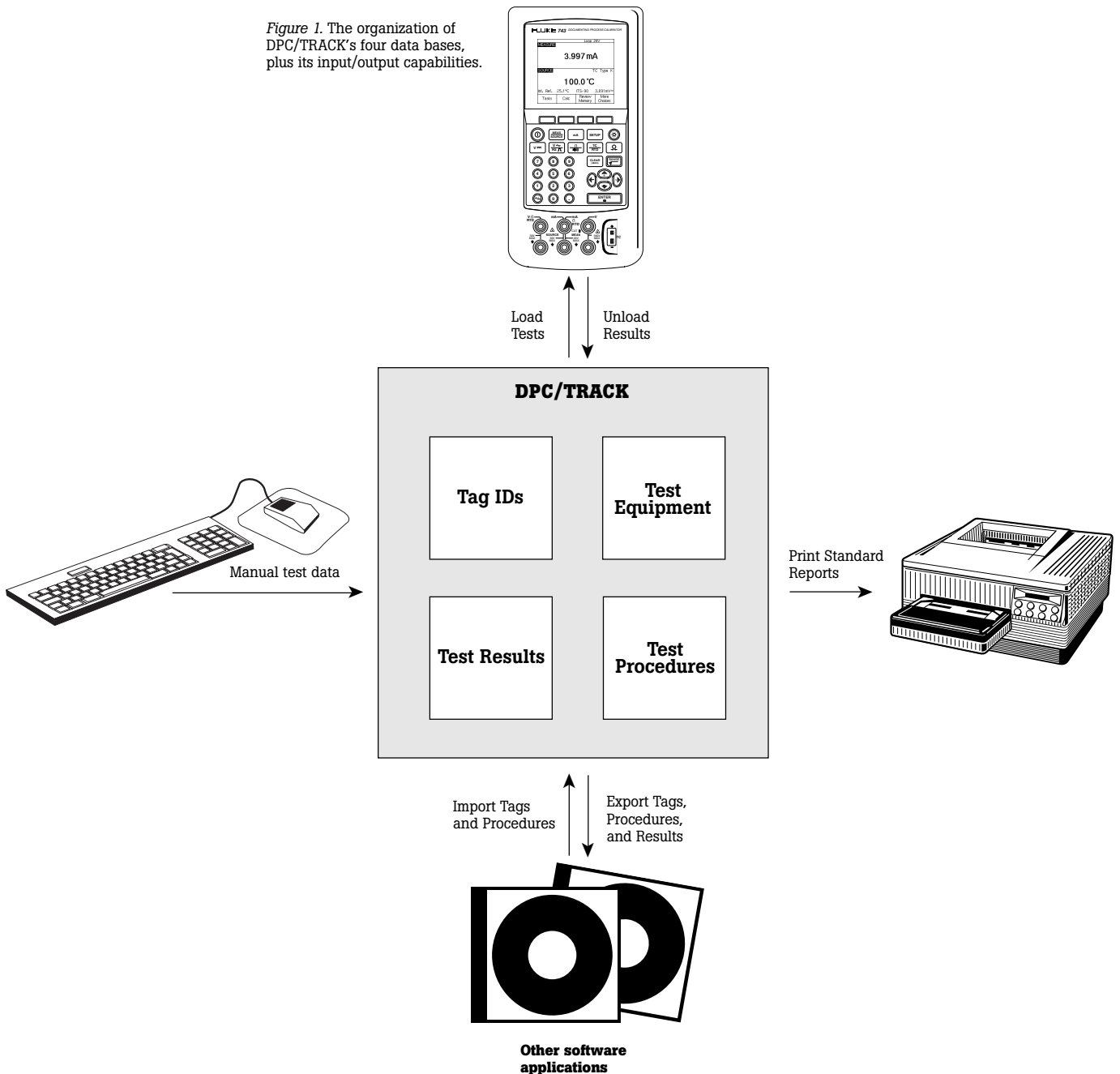
### DPC/TRACK empowers you to...



## DPC/TRACK:

- Supports an unlimited number of Tag IDs, Test Equipment, Results, and Procedures
- Produces eight pre-formatted reports, including Reverse Traceability to instruments tested
- Complements the multilingual capabilities of the 743, 744 and 702, and operates in English, French, German, Italian, and Spanish
- Accepts manually-entered results as well as data uploaded from the 743, 744 or 702
- Confirms that Test Equipment is in certification on the date of a test
- Helps ensure that Test Equipment is adequate for a particular test

Figure 1. The organization of DPC/TRACK's four data bases, plus its input/output capabilities.



## With DPC/TRACK you can:

### Manage your instrumentation...

The Instrument View window of DPC/TRACK permits you to enter and manage your instrumentation assets. A Search capability allows you to select a subset of your instruments. Then, to look at the specifics for any particular instrument, simply click on the appropriate tab: Instrument View (Figure 2), Setup (parameters, limits, and tolerance), Setup Cal (designation of a calibrator), and Test Procedure (Figure 3).

### ...create tests...

The Test Procedure Tab permits you to define a specific test for a chosen Tag ID. Default test points may be used, or tag-specific Test Strategies and Testpoints may be entered. Detailed Setup Messages (instrument locations, safety precautions and step-by-step instructions) and Wrapup Messages are entered here. Named procedures may be recalled for use.

Selected tests are marked for loading to the calibrator.

### ...run tests on your DPC...

Using DPC/TRACK, you can load your chosen set of tests to the DPC (Figure 4). DPC/TRACK makes it quick and easy for technicians to run tests and to collect and document results that satisfy quality control and regulatory requirements.

- Press the "More Choices" softkey on the DPC until the "Tasks" softkey appears
- Press the "Tasks" softkey to view the list of tests loaded from DPC/TRACK
- Choose the test you want to run from the Task List
- The test begins with on-screen start-up instructions; location of the instrument, isolation instructions, connection instructions
- The DPC automatically runs the prescribed test, capturing As Found and As Left data for later unloading to a PC
- Tag-ID, Serial Number and Operator are automatically filled in
- Tests conclude with wrap-up instructions
- Upon returning to the shop, results are unloaded to a PC running DPC/TRACK

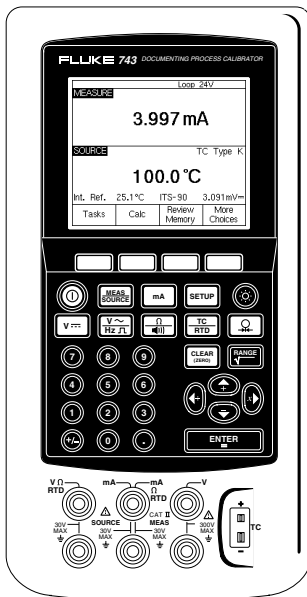


Figure 4.

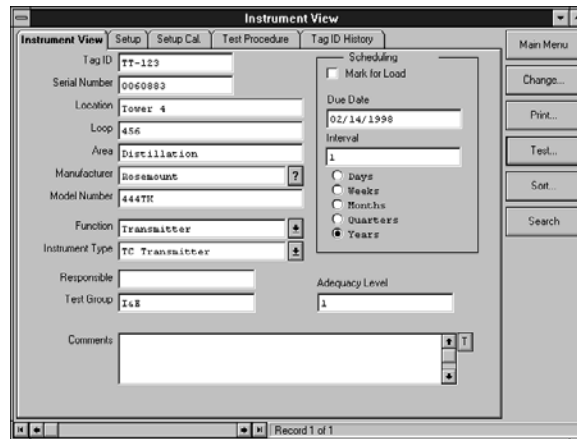


Figure 2.

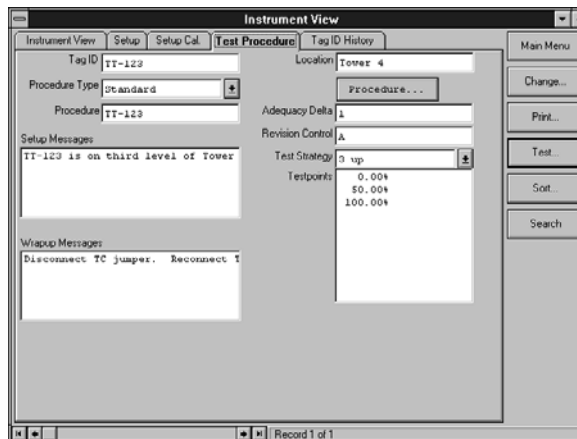


Figure 3.

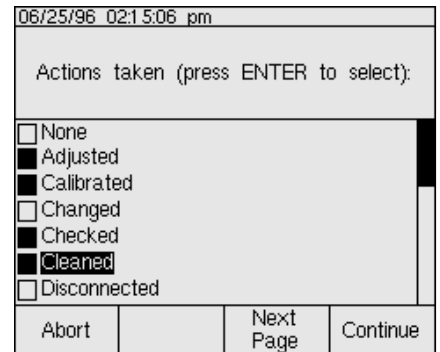


Figure 5.

**...record your specific actions...**

User defined lists may be loaded on the 743 or 744 calibrator, where they appear at the close of a procedure (see Figure 5). Here, the user can check-off selections from three User-defined lists;

- Reason for Work
- Problem(s) Found
- Actions(s) Taken

**...preview your results...**

After unloading the calibrator to your PC, you may preview your test results on-screen (Figure 6). Pass/Fail, worst-case error, and linearity are shown, for both As Found and As Left results. Add any post-test comments, and permanently save your data to the data base.

**...print reports...**

You may print eight pre-formatted reports; Calibration Cert, Test Detail, Instrument Detail (Figure 7), Last Test Done, Test Equipment, Pass/Fail List, Pass/Fail by Category, and Reverse Traceability.

**...and graphs**

You may graph any single test result (Figure 8), or create a Drift Plot of the worst-case deviations of a series of past tests (Figure 9).

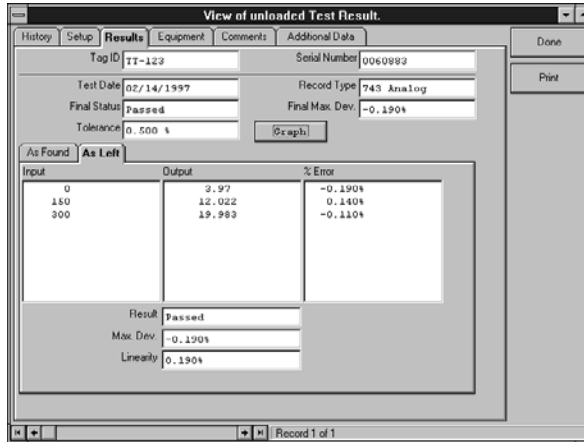


Figure 6.

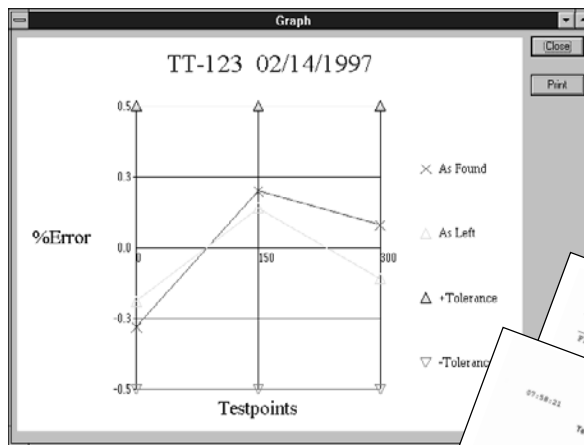


Figure 8.

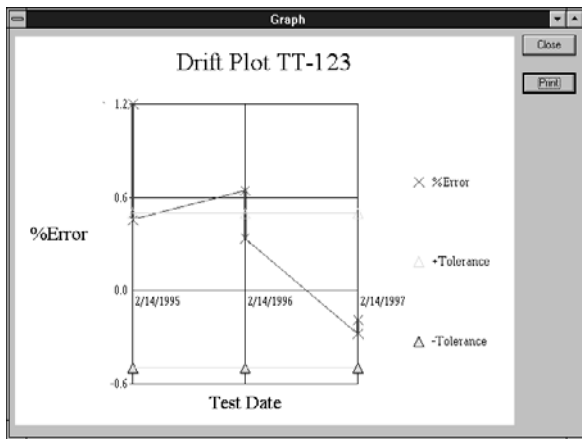


Figure 9.

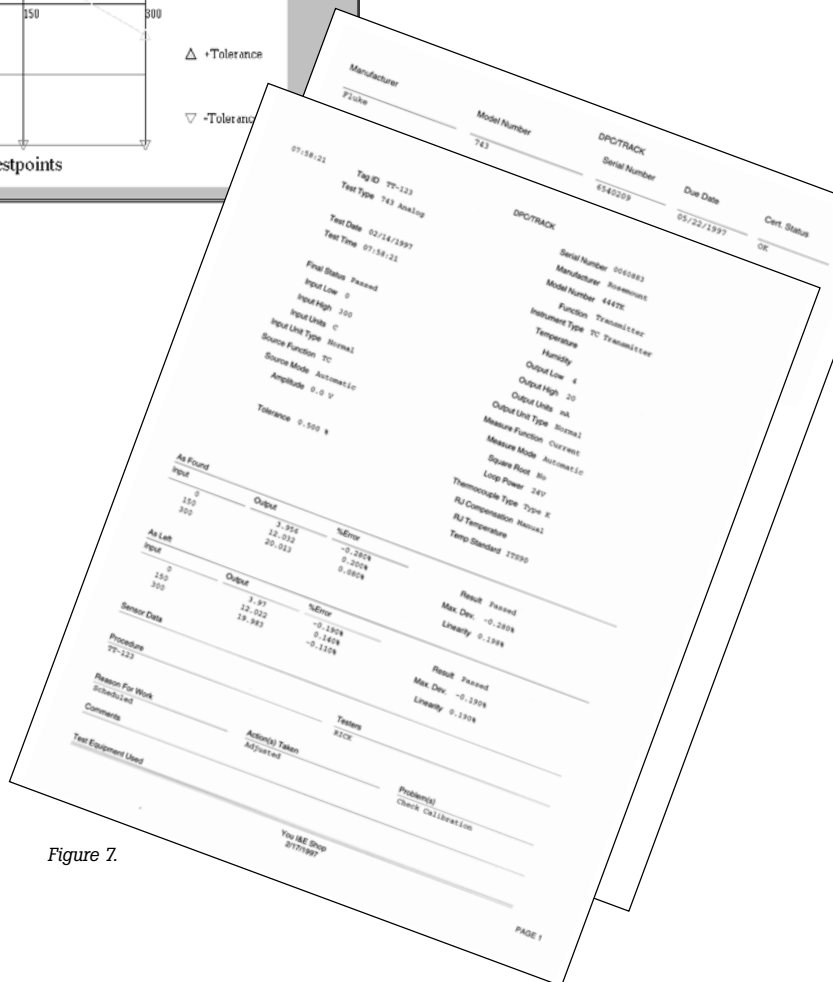


Figure 7.

## Export / Import File Descriptions

DPC/TRACK can import and export a rich collection of procedure and instrument data and export a wealth of results (history) data, all as tab-delimited ASCII files. The following table lists the data fields that may be imported to and exported from DPC/TRACK. Fields in bold apply only to the 743 and 744 calibrators. Other fields are accommodated on the 743, 744 and 702 calibrators.

PROC_IN.ASC PROC_OUT.ASC	INST_IN.ASC INST_OUT.ASC	HIST_OUT .ASC	
Adequacy Delta	AC/DC	<b>Action(s) Taken</b>	<b>TC Source Mode</b>
Procedure	Adequacy Delta	Amplitude	TC Type
Revision Control	Adequacy Level	<b>Base Input High</b>	TE Cert Status
Setup Messages	Amplitude	<b>Base Input Low</b>	TE Due Date
Test Strategy	Area	<b>Base Input Units</b>	TE Manufacturer
Testpoints	<b>Base Input High</b>	<b>Base Output High</b>	TE Model Number
Wrapup Messages	<b>Base Input Low</b>	<b>Base Output Low</b>	TE Serial Number
	<b>Base Input Units</b>	<b>Base Output Units</b>	Tag ID
	<b>Base Output High</b>	Calibrator Temp.	Temperature ( <i>ambient</i> )
	<b>Base Output Low</b>	Comments	Temperature Units
	<b>Base Output Units</b>	Comments Modified	Test Date
	Current Mode	<b>DB Max</b>	Test Time
	<b>Deadband Max</b>	<b>DB Min</b>	Testers
	<b>Deadband Min</b>	<b>Delay</b>	Tolerance
	<b>Delay</b>	Excluded Record	Waveform
	<b>Field List Choice</b>	Final Status	AF Error
	Function	Function	AF Input
	In High	Humidity ( <i>ambient</i> )	AF Linearity
	In Low	Input High	AF Max. Dev
	In Units	Input Low	AF Output
	<b>Input Unit Type</b>	Input Units	AF Result
	Instrument Type	<b>Input Unit Type</b>	<b>AF SP1 DB Max.</b>
	Interval Units	Instrument Type	<b>AF SP1 DB Min.</b>
	Interval Value	Logged Data	<b>AF SP1 Reset Point</b>
	Location	Logged Period	<b>AF SP1 Trip Error</b>
	Loop	Logged Requested	<b>AF SP1 Trip Point</b>
	Loop Power	Logged Start Date	<b>AF SP1 Trip Result</b>
	Manufacturer	Logged Start Time	<b>AF SP2 DB Max.</b>
	Measure Mode	Loop Power	<b>AF SP2 DB Min.</b>
	Model Number	Manufacturer	<b>AF SP2 Reset Point</b>
	Out High	Maximum	<b>AF SP2 Trip Error</b>
	Out Low	Measure Function	<b>AF SP2 Trip Point</b>
	Out Units	Measure Mode	<b>AF SP2 Trip Result</b>
	<b>Output Unit Type</b>	Minimum	AL Error
	Procedure	Model Number	AL Input
	Process	Output High	AL Linearity
	RJ Compensation	Output Low	AL Max. Dev.
	RJ Value	Output Units	AL Output
	RTD Type	<b>Output Unit Type</b>	AL Result
	RTD Wires	<b>Problem(s)</b>	<b>AL SP1 DB Max.</b>
	Responsible	Procedure	<b>AL SP1 DB Min.</b>
	SN	RJ Compensation	<b>AL SP1 Reset Point</b>
	Sensor Type	RJ Value	<b>AL SP1 Trip Error</b>
	<b>Setpoint 1</b>	RTD Type	<b>AL SP1 Trip Point</b>
	<b>Setpoint 1 Direction</b>	RTD Wires	<b>AL SP1 Trip Result</b>
	<b>Setpoint 1 State</b>	<b>Reason for Work</b>	<b>AL SP2 DB Max.</b>
	<b>Setpoint 2</b>	Reason for excluding	<b>AL SP2 DB Min.</b>
	<b>Setpoint 2 Direction</b>	Record Type	<b>AL SP2 Reset Point</b>
	<b>Setpoint 2 State</b>	SN	<b>AL SP2 Trip Error</b>
	Setup Messages	Sensor Data	<b>AL SP2 Trip Point</b>
	<b>Source Mode</b>	Sensor Type	<b>AL SP2 Trip Result</b>
	<b>Square Root</b>	<b>Setpoint 1</b>	
	Step Size	<b>Setpoint 1 Direction</b>	
	<b>TC Source Mode</b>	<b>Setpoint 1 State</b>	
	TC Type	<b>Setpoint 2</b>	
	Tag ID	<b>Setpoint 2 Direction</b>	
	Test Group	<b>Setpoint 2 State</b>	
	Test Type	Source Function	
	Testpoints	Source Mode	
	Tolerance	<b>Square Root</b>	
	<b>Trip Function</b>	Step Size	
	<b>Waveform</b>		
	Wrapup Messages		

**How many DPCs may be supported by one DPC/TRACK?**

One copy of DPC/TRACK can support an entire shop's collection of 743, 744 and 702 Calibrators, typically up to 10 calibrators. DPC/TRACK is intended for single station use. While it can handle files located on any valid networked drive, it should not be considered a fully-networked software application.

**System requirements:**

- IBM compatible 486-50 computer (Fast Pentium™ is strongly recommended)
- 8 MB RAM required (16 MB or more recommended)
- Microsoft Windows™ Version 3.1 or later
- MS-Windows compatible pointing device
- MS-DOS™ Version 5.0 or later
- 20 MB hard disk space minimum, plus approximately 1 KB per record
- Graphics monitor and card (VGA color or better recommended)
- For calibrator communication:
  - RS232 serial asynchronous communication port
  - Compatible Fluke calibrator (743, 744 or 702)
  - RS232 communications cable (9 pin, straight-through, male/female, Fluke part number 943738; supplied with Fluke-743, 744 and Fluke-702)

**Comparison of 702 / 743 / 744 compatible software packages**

Fluke-DPC/TRACK is a powerful, entry-level instrumentation data base. It replaces Fluke's previous PMLink software. Additional software alternatives are available from Fluke's software partners;

Cornerstone, Honeywell Loveland, Sand Cove, and others. A top-level comparison is offered in the table below.

Capability	DPC/TRACK	Fluke partners' software
Communication with 702	•	•
Communication with 743, 744	•	•
Communication with calibrators of other manufacturers		•
Instrumentation database	•	•
Import of instrument and procedure data	•	•
Import of results data		•
Export of instrument and procedure data	•	•
Export of results data	•	•
Arbitrary test strategies	•	•
Manual input of calibration results	•	•
Fixed reports	•	•
Custom reports		•
Customized fields and screens		•
HART configuration and communication		•
Fully networkable		•

**Ordering Information**

Fluke-700SW DPC/TRACK Software includes software disks, users manual, serial port cable, DB9 to DB25 (9 pin to 25 pin) adapter.

**Honeywell DocuMint**



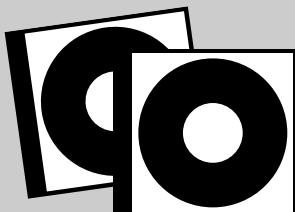
AMS from Emerson Process Management, (formerly Fisher-Rosemount).

**Prime Technologies**

**On Time Support**



**Fluke. Keeping your world up and running.**



**See for yourself...**

Evaluate DPC/TRACK on your own PC with the Demo Version of DPC/TRACK  
 Contact your local Fluke sales organization, or call:  
 In the U.S.A: (800) 443-5853 or Fax (206) 446-5116  
 In Europe: (31 40) 644200 or Fax (31 40) 644222  
 In Canada: (905) 890-7600 or Fax (905) 890-6866

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