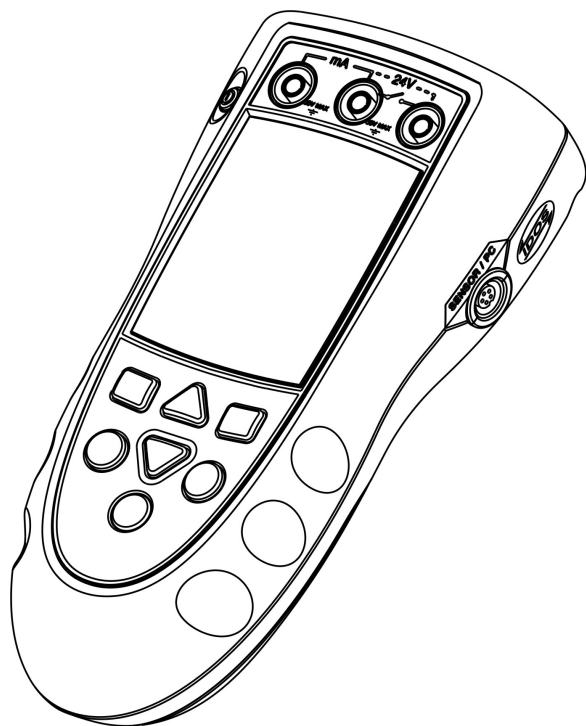
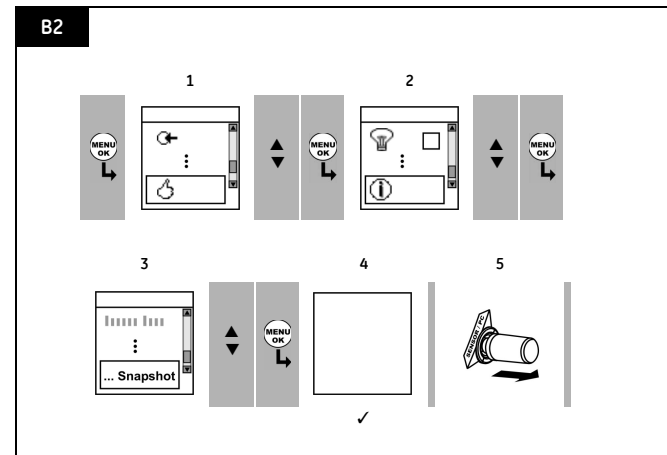
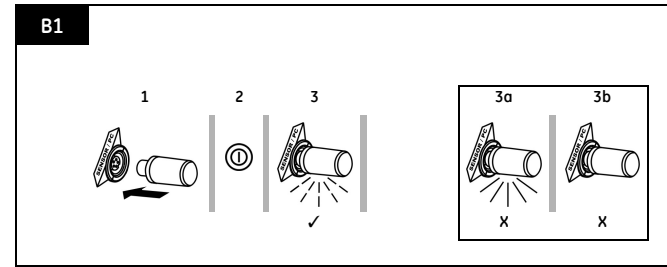
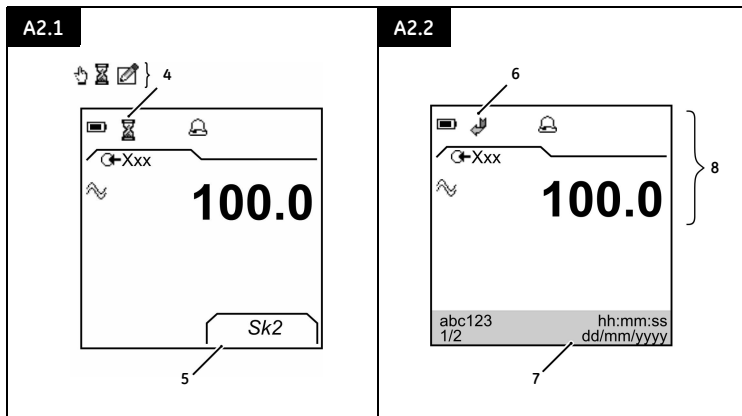
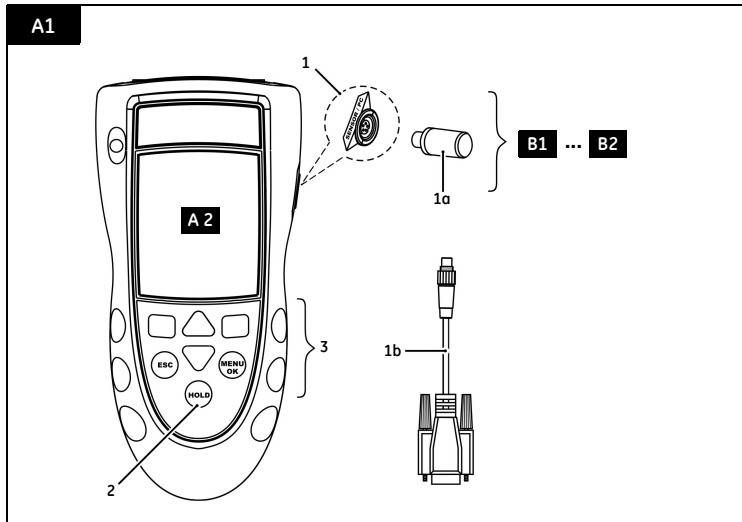


# Druck DPI 800 series

Data logging upgrade kit

User manual - K397





Introduction



The data logging upgrade kit lets you add *Snapshot* to a Druck DPI 800 series instrument (*Note: Snapshot is a standard part of the DPI 820 - Thermometer*). The upgrade gives the instrument these additional functions:

Function
Record up to 1000 displays with a date/time stamp
Read the data back on the instrument display
Transmit the data to a printer or a PC







Safety

Before you use the instrument, make sure that you read and understand all the related data. This includes: the instructions supplied with the original instrument, and this publication.



Safety - Marks and symbols

	Complies with European Union directives		ON/OFF
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Snapshot - Location of items **A1**

Item	Description
1. 	Communications port. Use to connect the software key [1a] and the RS232 cable [1b].
1a.	Software key. The software key can do one <i>Snapshot</i> installation (Table 1).
1b.	Part No. IO800D: RS232 cable (5-pin to 9-pin D type connector). Use to copy the snapshot records to a PC or to a printer. Refer to "Snapshot - Operation".
2. 	If <i>Snapshot</i> is on (Item 4): HOLD records the data on the display.
3.	All other button functions:   (left-hand/right-hand soft-key). <b>ESC, MENU/OK, , , HOLD</b> Refer to the user manual supplied with the original instrument.

Snapshot - Items on the display **A2**

Item	Description
4. 	<i>The Snapshot function is set up to record the data on the display (Periodic or Keypress) - Table 4</i> <i>Snapshot is writing data to a specified file.</i>
5. <i>Sk1/2</i>	A soft-key function. To select an available function, press the soft-key below it. Example: <i>Sk2 = Stop Log</i>
6. 	The display is showing data from one of the <i>Snapshot</i> files.
7. <i>abc123 1/2</i>  <i>hh:mm:ss dd/mm/yyyy</i>	Data to identify the <i>Snapshot</i> file: Tag name: A specified name for the file (Table 4). The display sequence (Example: one of two) Shows the time and date for each display. Example format: hours:minutes:seconds and day/month/year
8.	All other symbols on the display: Refer to the user manual supplied with the original instrument.

Snapshot - Installation **B1 ... B2**

This section shows how to install *Snapshot*. Before you start: Read and understand the "Safety" section.

Table 1: Installation procedures for *Snapshot*

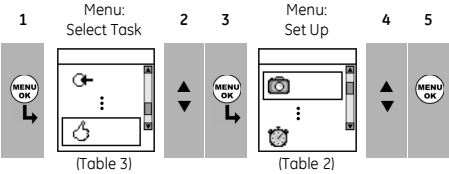
Step	Procedure
<b>B1: 1</b>	Attach the software key (A1 - Item [1a]) to the communications port (A1 - Item [1]).
<b>B1: 2</b>	Press the on/off button to supply power.
<b>B1: 3</b>	If the software key is operational, it flashes.
<b>B1: 3a</b>	If the software key shows a continuous light, it has already done one installation. *Discard it and use a new key.
<b>B1: 3b</b>	If the software key shows no light, make sure that the power is on and the batteries are in a good condition. If there is no change, the key is defective. *Discard it and use a new key.
<b>B2: 1</b>	Select <i>Set up</i>
<b>B2: 2</b>	Select <i>Status</i>
<b>B2: 3</b>	Select <i>Enable Snapshot</i> . The display shows the applicable instructions to complete the installation.
<b>B2: 4</b>	When the installation is complete, the power goes off and <i>Snapshot</i> is ready to use. After a successful installation, <i>Enable Snapshot</i> is removed from the <i>Status</i> list of menu options.
<b>B2: 5</b>	*Discard the used software key.

\* Use an applicable recycling facility.

To start

To start - Set up the basic operation

When the installation is complete, use the *Set Up* menu to set up the basic operation of the instrument.



If there is additional data for a menu option, select *Settings* (■ ■) to see the values that are set up. If necessary, adjust the values.

Table 2: Menu options - Set Up

Options (If applicable)	Description
	To set up and use the <i>Snapshot</i> functions. <i>Additional data:</i> Refer to "Snapshot - Operation" (Table 4)
...	Other menu options: Refer to the user manual supplied with the original instrument.
	To set the time + date. Snapshot adds a date/time stamp to each display.

To start - Select a task

When the instrument is set up (Table 2), use the *Select Task* menu to select the applicable task.

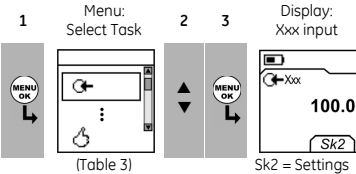


Table 3: Menu options - Select Task

Options (If applicable)	Description
	Other menu options. Refer to the user manual supplied with the original instrument.
	To set up the way the instrument works. <i>Additional data:</i> Refer to: Set Up (Table 2).

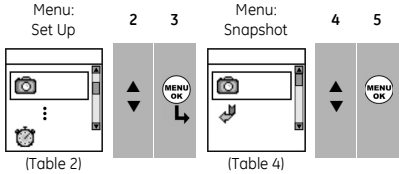
Snapshot - Operation

When the installation and start procedures are complete, use this section to use the *Snapshot* functions. Before you start:

- Read and understand the "Safety" section.
- Do not use a damaged instrument.

Operation - Use the Snapshot functions

Use *Snapshot* to record up to 1000 displays then examine the results on the display (Figure A2.2), or transmit all the data to a PC or printer (Figure 1).



If there is additional data for a menu option, select *Settings* (■ ■) to see the values that are set up. If necessary, adjust the values.

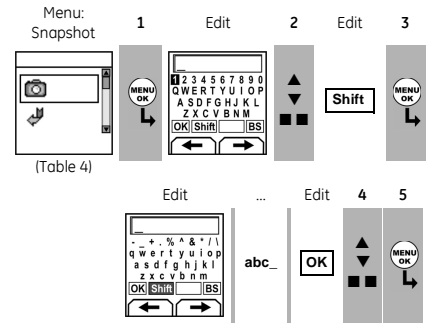
Table 4: Snapshot functions

Options	Description
	Use <i>Snapshot Setup</i> to set up a file name and to select the <i>Snapshot</i> method. Refer to "Snapshot - Setup".
	Use this option to record an individual display each time you press HOLD.
	Use this option to record the displays at specified intervals of time. Press HOLD to start. <i>Additional data:</i> Select <i>Settings</i> (■ ■) <i>Off - Snapshot</i> is off
	To show the available <i>Snapshot</i> data on the display (Figure A2.2). Use these keys: ▲, ▼, MENU/OK
	To transmit all the <i>Snapshot</i> data to a PC or a printer (Figure 1).
	To erase all the <i>Snapshot</i> data.
	To show the amount of memory used (%). Total memory = 12 288 bytes Capacity = 1000 displays (one measurement) Capacity = 750 displays (two measurements) <b>Example:</b> One file = 96 bytes (no <i>Settings</i> ) For each display in the file: Date/Time = 8 bytes; Each value = 4 bytes One display (One measurement) = 12 bytes

Snapshot - Setup

When you select *Snapshot Setup* (Table 4):

1. Set up a *tag name* for the *Snapshot* file. Example = abc



2. Select the applicable *Snapshot* method (Table 4).

3. Record the applicable data (Figure A2.1):

Press HOLD: To record the display data.  
Select *Stop Log* (■ ■ ■): To set *Snapshot* - Off

*Snapshot* - Use the *Snapshot* data

When you have sufficient records, select *Stop Log* (■ ■ ■).  
You can then read the data back on the display or transmit it to a PC or printer (Table 4).

*Snapshot* - Communications port connections

Use the communications port (A1 - item [1]) to transmit all the *Snapshot* data to a PC or a printer.

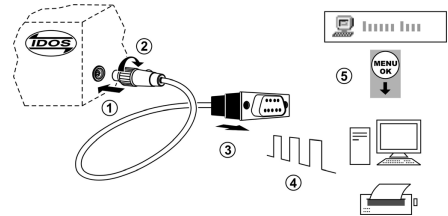


Figure 1: (Part of figure) Procedure to transmit the Snapshot data

Step	Procedure
①, ②	A1 - Item [1b]: Connect the 5-pin connector to the IDOS instrument.
③	A1 - Item [1b]: Connect the 9-pin connector to the serial port on the PC or to a serial printer (refer to the PC or printer instructions).
④	PC: Make sure that Windows® HyperTerminal or similar program is set up to use the specified data format (refer to your PC on-line Help). Serial printer: Make sure that the printer can use the specified data format. <b>Data format</b> Baud rate: 19200                      Data bits: 8 Parity: None                          Stop bits: 1 Software handshake: Xon/Xoff Flow Control. ASCII format text; Comma delimited ASCII Setup: Make sure that the ASCII Receiving option is set to "Append line feeds to incoming line ends"
⑤	Transmit the data to the PC or printer (Table 4). PC: Use Windows® HyperTerminal or a similar program to make a text file. You can then import the text file into a spreadsheet.

Figure 1: (Part of figure) Procedure to transmit the Snapshot data

*Snapshot* - Contents of the *Snapshot* data

Model	820			
Serial No	8200000001			
Calibration due	01/01/2004			
Tag	H2O-1			
Task Id	110			
T1 in				
Date	Time	°C K T1		
08/07/2004	12:06:44	27.6		
08/07/2004	12:06:46	27.2		
Tag	B145			
Task Id	164			
T1 In	Tare On			
T2 In	Filter On	Tare On		
Date	Time	°C K T1	°C K T2	
08/07/2004	14:41:36	32.5	32.4	
08/07/2004	14:41:38	32.5	32.4	
08/07/2004	14:41:41	32.4	32.5	

Figure 2: Example Snapshot data



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