

STANDARD TEST METHOD
MOISTURE CONTENT FOR SOLID MATERIALS
HR 73 MOISTURE ANALYSER

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SCOPE:

To accurately calculate the moisture content of any raw material or mix where it is required.







APPARATUS:


1. Mettler Toledo HR 73 Moisture Analyser.

PROCEDURE:

Machine settings

1. An overview of the HR 73 Moisture analyzer is shown in FIGURE 1A & B. Setup instructions will refer to this diagram for button numbers and screen displays.
2. Turn the machine on by pressing the ON/OFF button (#33), or if the machine is already on press the RESET (#42). After a short period of time the default screen will be displayed.
3. The settings for standard moisture measurement of solid materials should be as shown in the table below. Once the settings have been set, they are stored automatically by the analyzer and can be used in subsequent tests without any requirement to change them.

Item	Position number on display in Figure 1.	Required Setting	Symbol
Switch off criterion	#19	4	
Drying program	#18	Standard	
Display mode	#17	Moisture content	
Print interval	#16	There is no standard setting for print interval. Set the print interval as required. eg, 30 sec	
Drying temperature	#12	105°C	
Operating mode	#27	Auto	
Audio signal	#30	On	

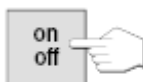
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	ISS	REVISION	DATE	DR.	AP'D	SHEET 1 of 4
	1	First Release	19.11.99	DI	LR	
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Operation

1. Turn ON Machine (#33)



2. If Machine is already ON press RESET to start again. (#42)

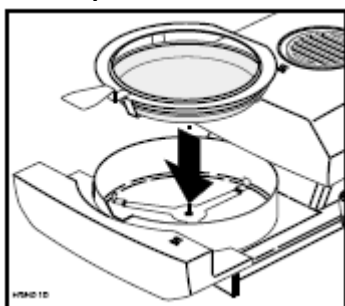


3. Check Machine settings. If not correct change to the required settings.
(See 'Machine Settings' above).

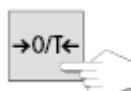
4. Open tray (Press button #55) and take out pan. Clean pan if required



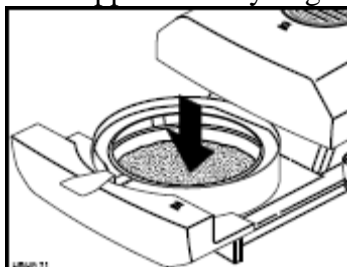
5. Reload pan into machine



6. TARE the machine (Press button #54)



7. Place approximately 25g of material into pan and spread evenly in pan



8. Press START




9. Wait while DRYING

10. Analyser will BEEP and the end result is displayed as well as printed.



END: 5.37%


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No.	Designation	Info s. section	No.	Designation	Info s. section
1	Display	all	31	Symbol for test measurement	4.4
2	Keypad	all	32	Status display (user guide)	2.6
3	Draft shield	2.3	33	Key «on/off»	2.6
4	Automatic sample chamber	2.6	34	Function key «Switch-off criterion»	4.4
5	Sample pan holder	2.3	35	Function key «Drying program»	4.2
6	Dryer unit	7.6	36	Function key «Display mode»	4.5
7	Inspection window and vent	6.3	37	Function key «Print Interval»	4.6
8	Level Indicator (level)	2.3	38	Key «Target weight» (weighing-In aid)	4.7/6.13
9	Printer cover	7.2	39	Key «ID» (method selection)	5.2
10	Built-in printer (option)	7.5	40	Key «Stat.» (statistics)	5.6
11	Levelling screw	2.3	41	Key «Menu»	6
12	Display of drying temperature	4.3	42	Key «Reset»	2.6
13	Display of drying time	4.4	43	Key «Journal»	5.5
14	Display of unit (percent or grams)	4.5	44	Key «Code» (record comment)	4.9
15	Weighing-In aid	4.7/6.13	45	Key «Accept entry»	all
16	Function display "Print Interval"	4.6	46	Key «A...Z» (alphanumeric entry)	4.9/5.3
17	Function display "Display mode"	4.5	47	Key «Scroll down»	2.5
18	Function display "Drying program"	4.2	48	Key «Scroll up»	2.5
19	Function display "Switch-off criterion"	4.4	49	Key «Drying time»	4.4
20	Dialog display (measured values, menu dialog, text entry, etc.)	all	50	Key «Drying temperature»	4.3
21	Menu symbol	6	51	Numeric keypad	4.1
22	Method symbol	5	52	Key «Delete»	4.1
23	Symbol for record comment	4.9	53	Key «Stop» (stop drying)	4.8/4.9
24	Statistics symbol	5.6	54	Key «Tare» (zero)	2.6
25	Stability detector	8.2/8.3	55	Key «Open/close auto sample chamber»	2.6
26	Symbol for calculated result	5.5	56	Key «Start» (start of drying)	2.6
27	Symbol for automatic operating mode of the automatic sample chamber	6.9	57	Key «Print»	4.8/6.1
28	Symbol for keypad locking (parameter reset protection)	6.11	58	Key «Paper feed»	4.8
29	Symbol for manual operating mode of the automatic sample chamber	6.9	59	Power supply receptacle	2.3
30	Symbol for audio signal device (beeper)	6.10	60	Power line fuses	7.3
			61	LocalCAN universal interface port	9.2

FIGURE 1B

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