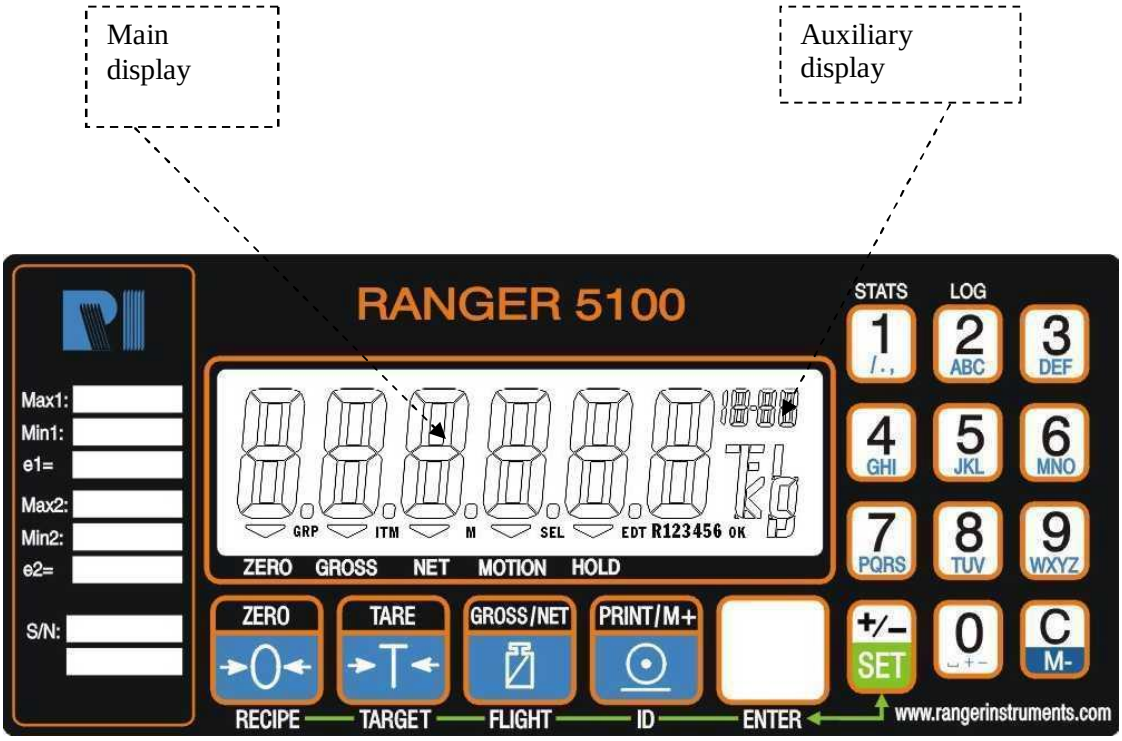
SMART WEIGHING SOLUTIONS

5100
Digital Indicator
Operator Guide

5100-612-100



OVERVIEW:

5100 is a general purpose indicator therefore it has to be optioned and programmed appropriately to do batching (refer to 5100 reference manual for setting up).

Option available for batching:

0241: 4 open collector outputs/ 4 inputs (hardware option)

SETTING OF RECIPE :

1. Key in the Recipe No. followed by the recipe key

(Recipe no. will be displayed on the Auxiliary Display)
2. To change a target weight press the set

key then the TARGET Key

*(The main display will flash between material name MAT 1 and the current target value and the auxiliary display will show **TGT**)*
3. Enter the target weight using the numeric keypad ensuring that a negative sign is entered when weighing then press the Enter key

(The display will go back to display material name and the target weight alternatively}
4. To enter an inflight value press the FLIGHT key

*(auxiliary display will show **FLT)** and* key in the required inflight value followed by the ENTER key

For other materials

5. Press TARGET key

for Material 2 *(MAT 2 [TGT] will flash)*
Key in the target weight as mentioned in no.2 above

6. Once all Material Targets are set Press to return to operation mode.

BATCHING OPERATION

I. NORMAL BATCHING:

1. Select the correct recipe as mentioned in No.1 the auxiliary display will show (**r.XX**) where XX being the recipe number selected. *(please refer to 5100 ref manual on how to enable the auxiliary display)*

2. To start the batch press the external remote start button or the front Batch Key (if this key is programmed as **BATCH**, refer to 5100 reference manual for function key assignment)

3. To pause the batch press the external Pause/Abort button or the Batch Key once the main display will show [**Pause Oper**]. All relays will be cut out

4. To restart the batch simply presses external Start or Batch key once.

Or

5. To cancel a batch press and hold the Pause/Abort until the 5100 beep twice.

6. Auxiliary display is now showing (**r.XX**).

II. PROPORTIONAL BATCHING AND OTHER SPECIAL SETTINGS

Once the desired recipe has been selected as mentioned above:

1. Pressing the Set Key

followed by the Recipe Key

*(the display will flash alternatively between **Find** and **Rec_01**)*

Repeated presses of the Recipe Key

will allow you to select the items below.

- Find Option (**FIND**): The find option allows an operator to locate a particular recipe by searching for its ID name. Each recipe has a number and may also have a six-character description. If the recipe number is known, simply enter the numerical number and press the function button.

- Proportion Option (**PROP**): The proportion option allows the batch size to be from 0.1% up to 100% of the stored values.

- Tare Option (**TARE**): The tare option enables a tare value to be entered against the recipe, in the weighing increments. This can be used to offset the weight of the container being filled.

2. Changing recipe name, Print reference and Ticket header

   a. Press the Set key

   then the Print Key

   display will show REC.ID [REC_01], REF [0] and HEADER, using the alphanumeric keypad to change any of these settings them press Enter to accept

   b. Press the Set Key

   to return to normal mode.

III. BATCH REPORT PRINTING

- 5100 needs to have option 0202 enabled to do QA report printing; every batch can be logged on a logging printer, this printout only available just before the Dump cycle.

- Serial port settings:

  SERIAL:SER2:**PRINT**.
  :Prn.OPT:TYPE:**SING**
  :MODE:**MANUAL**
  BAUD: to match Printer
  BITS:**n8-2d** (d stands for DTR handshaking is used)

Typical Example of Batch Printing:

Batch	Time	Material	Target	Actual	Material	Target	Actual	Total
000123	07:15:01	Cement	670	671	Flyash	241	241	912
000124	07:26:09	Cement	972	973	Flyash	0	0	973
000125	07:38:33	Cement	261	261	Flyash	87	87	348
000126	07:45:20	Cement	Manual	453	Flyash	Manual	117	570

- To obtain a batch Statistic press and hold the number 1 key {STAT} for about two seconds then press the Print Key

  to print out the batch statistics as shown below

Typical Example of Batch Statistics:

Recipe	Items	Av. Weight	Av. Time	Error %
2 30mpa	7	876	386.1	0.03
3 40mpa	2	491	215.7	0.11
4 45mpa	1	1014	496.3	0.01

To clear the Batch Statistic press and hold the Print Key

until giving double beeps and the display will show **CLR Y.** Press Enter

5100 will print out the batch statistic and reset all of its data or simply change **Y** to **N** with the Print Key

then Enter

to proceed without clearing the memory.

Press Enter key

to go back to the normal operation.

- To obtain a log Batch Log press and hold Key number 2 for about two second to access the Log menu then press the Print key

to print out the log as shown below.

Typical Example of Batch Log:

Mat	Items	Total
Cement	23	4,963kg
Flyash	6	1,184kg
Wh-Cem	1	433kg

To clear the Batch Statistic press and hold the Print Key

until hearing a double beeps and the display will show **CLR Y.** Press Enter key

5100 will print out the batch statistic and reset all of its data or simply change **Y** to **N** with the Print Key

then Enter to proceed without clearing the memory.

Press Enter key

to go back to the normal operation.

Notes:

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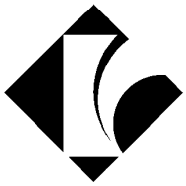

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