JNR Load Cell Indicator

User Manual

Document Version: JG8-081112
Software Version: H (Board revision 1.4 onwards)

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MODE SELECTION **DEFAULT VALUE = 00000 (STANDARD MODE)**

The unit may be user configured for certain functions, set via a code input.
To access the code hold the TARE key whilst restoring power, when the display shows 888888 release the TARE key. A 5 digit numeric code number will be displayed prefixed by an alpha character that records the build version for information purposes only. Refer to the code table for available functions. To change the settings press the ZERO key in order to clear the existing code and then input the new code (using the arrow cursor keys: PRINT to increase value, TARE to select next digit, MODE to enter).
Note: the unit must have the necessary hardware options installed if printing, analouge output or relay functions are selected.

Weigh Mode		**Print Mode**		**Baud Select**		**Line Feeds**		**Function**	
0	Standard	**0**	Nett Kg	**0**	1200	**0**	1	**0**	N/Open
1	Weigh Count	**1**	Nett Gm	**1**	2400	**1**	2(*)	**1**	N/ Open - Fast
2	Zero Lockout	**2**	Nett Tn	**2**	9600			**2**	N/Closed
3	Peak Hold	**3**	G.N.T Kg					**3**	N/Closed -Fast
4	Manual Batcher	**4**	G.N.T. Gm	**4**	Analogue Output			**4**	Hi/Low Limit
5	1 Trip Batcher	**5**	P.C. Tn					**5**	Hi/Low Limit-Fast
6	2 Trip Batcher	**6**	P.C. Kg						
7	Totalize	**7**	P.C. Gm						
8	Freeze	**8**	P.C. Te					**8**	Auto Switch off

If output options are installed, refer to supplied option user manual

LOAD CELL CONNECTION – via 7 way screw terminal block

SCN Cable Screen
-SE Negative Sense
+SE Positive Sense
-EX Negative Excitation
+EX Positive Excitation
-IN Negative Signal
+IN Positive Signal

Sense Connection
For 4-wire load cells, place a wire link between:
-SE (terminal 2) and **-EX** (terminal 4)
+SE (terminal 3) and **+EX** (terminal 5)

WEIGH MODE OPERATION

0. STANDARD MODE
POWER: used to switch on the unit, if this key is pressed when the unit is working the display will indicate the supply voltage, this is useful for battery operation.
ZERO: references the display to zero
TARE: the first press of this key tares the display the second press clears the tare. A symbol in the far left of the display indicates if a tare is present.
MODE: allows access for preset tare input.
PRINT: initiates a printout if option fitted. The printout is selectable for nett or gross/nett/tare and for units and linefeeds. A time and date print will also occur if installed. Note: the printout will only occur when the reading is steady and further printouts are inhibited until the load is removed.

1. WEIGH COUNT MODE
ZERO: clears any container weights.
Count 10 items onto the platform then press the MODE key. The display should now indicate a count of 10 and further components added will be counted. The ZERO or TARE may be used if required. To return to weigh mode press the MODE key.
PRINT: initiates a printout of weight or count depending on mode selection.
Note: the sample quantity is default to 10 however if you wish to alter this value press the POWER key and input the desired quantity (1 to 100).

2. ZERO LOCKOUT
This mode inhibits inadvertent zero selection. To zero the display press the ZERO and then MODE key together. Release the ZERO key and then the MODE key.

3. PEAK HOLD
To select peak hold mode press the MODE key. Peak weight will then be displayed until the MODE key is pressed again, the unit will then return to normal weighing.

4. 5. 6. BATCHING FUNCTIONS (RELAY OUTPUTS)
Refer to Relay Output Option Manual

7. TOTALISING
Press the PRINT key to add an indicated weight value to the store. Further additions are inhibited until the display returns to zero. To view the total press the MODE key, press the PRINT key to clear the total or the MODE key to exit.
If a printer is connected then printout of running number, weights and total will occur.

8. FREEZE MODE
When a weight above 50 displayed divisions is indicated the unit will initiate a stabilise routine followed by a locking of the indicated weight value. The display will unlock below 50 indicated divisions. To initiate a re-weigh in lock mode press the TARE key and when the display shows zero re-press this key. Press the PRINT key to add an indicated weight value to the store. Further additions are inhibited until the display returns to zero. To view the total press the MODE key, press the PRINT key to clear the total or the MODE key to exit.

'JNR-BA' only:
BATTERY LOW INDICATOR - A small dot illuminates in the far left of the display if the battery voltage is low.
Correct Procedure to charge unit:
1. With the adaptor **AND** Junior switched **OFF** plug the adaptor jack into the unit.
2. Switch on the Adaptor and allow approx 12 hours to fully charge (from a fully discharged state). You can use the unit whilst in charging mode.
3. Once the charge cycle is complete press and hold the ZERO key to switch off the Junior and **switch OFF the adaptor via the mains outlet.**
4. Disconnect the Adaptor jack from the Junior and use normally until the Battery Low indicator is indicated.

SPECIFICATIONS

Power Supply Options	**JNR-AC** **JNR-DC** **JNR-BA**	110-250VAC 11-30VDC Internal Rechargeable Battery
Input Range		0.5 to 3mV/V
Load Cell Excitation		5VDC (120mA max.)
Accuracy		±0.01% full scale
Display		6 digit 18mm LED or LCD
Operating Temperature		-10 to +40°C
Thermal Stability		2ppm /°C
Dimensions		165 x 110 x 60 mm
Output Options	**-232** **-ANV** **-ANC** **-AL***	RS232C 0-5/0-10VDC 4-20mA *1 or 2 Relay rated 100mA @ 24V

For calibration or service contact:

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EC Declaration of Conformity

E.M.C. STANDARD EN61326 CLASS A

PRODUCTS:

JNR-DC JNR-AC JNR-BA

To which this declaration relates is in conformity with the following transposing harmonized standards:

DIRECTIVE	DESCRIPTION
EN55022	Radiated Emissions
EN61000-4-4	Fast Burst Transient
EN61000-4-3	Radiated Immunity
EN61000-4-6	Conducted Immunity
EN61000-4-2	Electrostatic Discharge
EN6095	Low Voltage Safety

R.O.H.S DIRECTIVE

The instruments listed conform to the R.O.H.S directive and therefore compliant with the directive.

This declaration is made on the basis of certification and declarations provided to us from our component suppliers. Under our duty of due diligence these documents are stored for future audit purposes.