Operation Manual

MATCHAU DY1 SERIES
Dynamometer

Zhenjiang Matchau Marine Equipment Co.,Ltd.

Content

Chapter 1 Main Specification

1. Accuracy: GradeIII, n=3000

2. Sample Rate：   80 times/second

3. Scale interval：   1/2/5/10/20/50 for option

4. Display：   6 bits LCD，6 state indicating

signals

5. Communication interface：   Wireless signal

6. Power supply: Battery AA 1.5V*3

7. Operating temperature/humidity: -10～45℃；≤90%RH

8. transporting temperature: -20～50°C

Chapter 2 Installation

2.2 KEY FUNCTIONS

[FUNC]Keep pressing this button for 5 seconds more in weighing

mode, it will come into

operator setting mode;

[>]Press this button to turn on/off backlight.

[^/ZERO]Press this button to zero in weighing mode.

[⏻]Press this button to start the indicator when it is off; and press it to shut off upon on.

Chapter 3 Calibration

3.1 Turn on the indicator, press [FUNC]key while it is initialization, it will enter into the calibration mode and calibrate as following:

STEP	OPERATION	DISPLAY	NOTES
1	Press**[^]** for selection of division	**[d X]**	Select division optional(1/2/5/10/20/50),press **[FUNC]**for confirm Example: 20
2	Press**[^]** for selection of DECIMAL POINT selection	**[P X]**	Selectdecimal point optional: 0~3, press **[FUNC]**for confirm Example:3
3	Set the full range	**[FULL]**	Press **[^]** for selection of the digit bit; Press **[>]** for selection of the digit; Press **[FUNC]**for confirm the input of full range
4	Zero point calibration: P r e s s **[FUNC]**when the stable signal is on	**[nOLOAD]**	Assure there is no load

5	Full range point calibration: Press **[FUNC]**when the value input is the same as the loaded weight and the stable signal is on	**[AdLOAD]**	While inputting the loaded weight, Press **[^]** for selection of the digit bit; Press **[>]** for selection of the digit; when the input value is the same as the loaded weight and the digit bit is at the highest bit, press **[FUNC]**when the stable signal is on
6		**[End]**	
7	one second after the instrument automatically saved parameters, return to the weighing. (Optional instrument with the touch calibration switch, the meter will save the parameters and return to weighing).		

Chapter 4 Operation

3.1 POWER ON AND AUTO ZERO-SETTING

3.1.1 The indicator will perform "999999-000000" to self-checking when turning on. Then it will enter weighing mode.

3.1.2 When power on, if loading weight on the scale deviates from the zero point, but still within zero set range, the indicator will set zero automatically; if out of range, it is necessary to adjust the zero point or recalibrate or reset.

3.2MANUAL ZERO SETTING (AUTOMATICALLY)

3.2.1 In weighing mode, when there is some error when unloaded, press **[^]** to make the indicator to be zero.

3.2.2If the displayed value deviates from zero point, but still within zero-range, pressing **[^]** key is available. Otherwise, **[^]** key is invalid. (In this status, please recalibrate or reset zero parameters)

3.2.3 Only when stable annunciator is on, zero operation can be available。

3.3 TARE FUNCTION

When Indicator at weighing status, and displaying positive weight stable, press **[Tare]** key, indicator will deduct the displayed weight value as tare weight. Then indicator displays net weight as "0 ", and Tare sign annunciator is on.

3.6USER'S FUNCTION SETTING

In weighing mode, keep pressing [FUNC] for 5 seconds more, it will

enter operator setting mode (mode P), there are 12 modes from P1 to P12 for option, press **[>]** to choose the mode and press **[^]** to choose the parameter. The description of parameter as follows:

1、P1　x　　　　　　　　　　　kg Lb change
　　X=1:　　　　kg display
　　X=2:　　　　Lb display
2、P2　x　　　　　　　　　　automatically power off
　　X=1:　　　　No this function
　　X=2:　　　　Power off 10 minutes later
　　X=3 :　　　　20 minutes
　　X=4 :　　　　30 minutes
3、P3　x　　　　　　　　　Baud rate setting
　　X=1:9600**(If the connection is wireless indicator, you must select this option)**
　　X=2:　　　　4800
　　X=3:　　　　2400
　　X=4:　　　　1200
4、P4　x　　　　　　　RS232 Net/Gross weight output option
　　X=1:　　　　Net weight output
　　X=2:　　　　Gross weight output
5、P5　x　　　　　　　　　RS232 output mode option
　　X=1:　　　　No transmission (RS232 stop)
　　X=2:　　　　Continuous transmission 1
　　X=3:　　　　Continuous transmission when stable
　　X=4:　　　　Command mode (Z : zero , T : tare , R : transmit weight data once time)
　　(If the connection is wireless indicator, you must select this option)
　　X=5:　　　　Current loop output(optional)
　　X=6:　　　　Keep（Printer）
　　X=7:　　　Continuous transmission 2
　　X=8　　　Continuous transmission 3
6、P6　x　　　Communicate address settings
　　x=addr:　　　addr=1 to 9 option
7、P7　　x　　　　　　　　Zero-tracking scope
　　X=1:　　　　　0.5e

X=2:	1.0e
X=3:	1.5e
X=4:	2.0e
X=5:	2.5e
X=6:	3.0e
X=7:	5.0e

8、P8　　x　　　　　　　　　Zero key scope

X=1:	2%FS
X=2:	4%FS
X=3:	10%FS
X=4:	20%FS
X=5:	100%FS

9、P9　　x　　　　　　　Zero scope upon starting

X=1:	2%FS
X=2:	4%FS
X=3:	10%FS
X=4:	20%FS
X=5:	100%FS
X=6:	Boot is not set to 0

10、P10　x　　　　　Digital filtering intensity

X=1:	high
X=2:	middle
X=3:	low

11. P11　　X　　　　　Stabile time

X=1:	high
X=2:	middle
X=3	low

12. P12　　X　　　　　　Stable extent

X=1:	low
X=2:	middle
X=3:	high

13．P13　x　　　Wireless frequency channel

x=channel　　　　addr=1 to 99 option

(**If it will connect to other wireless indicator ,the channel must as same as wireless indicator.**)

Chapter 5 Error Indication

EER 1	The AD value is too small when calibrated.
EER 2	The zero point is out of range when calibrated.
EER 3	The zero point is out or range upon starting
EER 4	The imputed sample number is zero when sampling n counting mode.
EER 5	The imputed weight is zero when full scale calibrated in calibrating mode.
EER 6	The unit weight is less than 0.25e when sampling in counting mode
bAt-lo	Low power
--ov--	Overload warning

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