



Analog Output 4 – 20mA

(optional 0-5V)

Manual

User/installer

(For Software Version EZ2 7.0 and higher)



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TECHNICAL SPECIFICATIONS

OPERATING TEMP.

-30 to +40°C

OUTPUT SIGNAL

4-20mA (optional 0-5V)

OUTPUT LOAD RESISTANCE

< 350 Ω

RESOLUTION

16 bits, 1LSB = 0.0015% of full range, where 1 LSB = 244 nA of 7.5 mV

NONLINEARITY

< +/- 0.012%

GAIN PLUS OFFSET ERROR

+/- 0.15% max

UPDATE RATE

10x per second

TEMPERATURE DRIFT

50ppm/°C 0,35% max.

SAFETY DURING USE



Caution

Check system before use

Before you are going to use the Digi-Star weighing system you need to check the proper working of the system by charging all weighing points with a known weight.

Digi-Star cannot be held responsible for deviations and problems arising from incorrect use of the weighing indicator, incorrect calibration or settings. Furthermore Digi-Star cannot be held responsible for deviations and problems arising from technical problems to the system.

OPERATIONS

Introduction

The Analog Output Option provides an analog signal that is proportional to the scale weight. The option is standard configured as 4-20mA with a 0mA signal in case of an error in the weighing indicator. (Optional 0-5V). This option can be added to any EZIII series indicator*.

(*The 4-20 mA option cannot be build into the EZ400 indicator.)

Connections

The signal will be supplied through J904 or J905:

- Contact 1 = signal
- Contact 8 = ground

Indicator setup

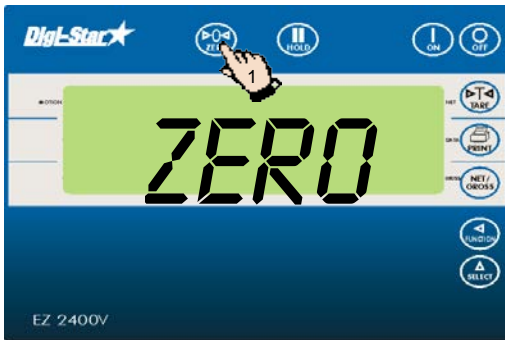
Parameters



After setting up your EZ indicator for proper operation, four more parameters are required for the analog output feature to function properly ("ZEROUT", "LOW WT", "HI GHWT", "ANAOut").

N.B. : Changing the parameters ("ZEROUT", "LOW WT", "HI GHWT", "ANAOut") will change the analog output signal. You then must recheck the functionality.

Before setting the analog parameters make sure the scale has been zero balanced. This should be done when the scale is empty.


Zero balance the weighing indicator



1. Press  and then within 3 seconds press  To set the scale to “zero”.

PARAMETER SETUP

Zero out "ZEROUT" : (EZ3400/3600 Direct access number 219)

"ZEROUT" needs to be set to zero with the load cells connected and the scale empty. This then will match the minimum analog output (4mA or 5V). (After selecting "ZEROUT" setting, press  to set the output signal to zero)

Minimum weight "LOW WT" : (EZ3400/3600 Direct access number 241)

The weight where the analog output signal is 4mA or 0V.

Maximum weight "HI GHWT" : (EZ3400/3600 Direct access number 242)

The weight where the analog output signal is 20mA or 5V.


Analog-mode "Anaout" : (EZ3400/3600 Direct access number 243)

Select the desired output signal 4-20mA (default), or 0-5V.

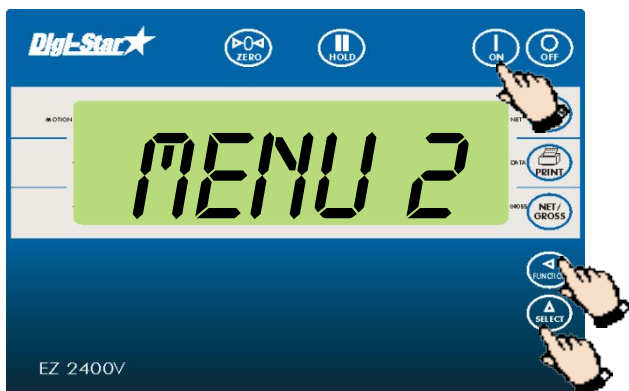
Example












Weighing platform specs:

- Scale capacity 10000Kg
- Analog signal at 0 kg 4mA
- Analog signal at 10000 kg 20mA

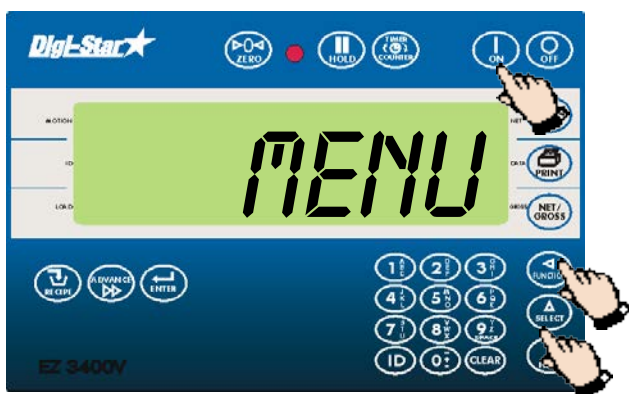
1. Make sure the weighing platform is empty and set the scale to zero (see above).
2. With the weighing platform still empty, set "ZEROUT" to 0 by pressing  when in the "ZEROUT" setting in menu 2. (Output signal and weighing indicator should both show 0.)
3. Set "LOW WT" to 0.
4. Set "HI GHWT" to 10000.
5. Set "Anaout" to 4-20mA







Set up EZ2400



1. Repeatedly press  until the display shows "menu".
2. Press and hold  for 3 seconds to enter the menu.
3. Repeatedly press  until the display shows "menu 2".
4. Press  to enter menu 2.
5. Repeatedly press  until the display shows the required setting.
 - a. Use  to set "ZEROUT" to 0.
 - b. Use  and  to enter a new value for "LOW WT" and "HI GHWT".
 - c. Use  to change the "Anaout" setting.
6. Press  to confirm setting and advance to next setting.
7. After all settings have been made repeatedly press  until you exit the menu and return to weighing mode.

Set up EZ3400 / EZ3600



1. Enter desired "direct access number**" and press  to select the desired setting.
 - d. Use  to set "ZEROUT" to 0.
 - e. Use  and  to enter a new value for "LOW WT" and "HI GHWT".
 - f. Use  to change the "Anaout" setting.
2. Press  to confirm setting and return to weighing mode.
3. Repeat steps for the other settings.

**See page 3 for "direct access numbers"

