

USER MANUAL

DISPLAY 150/300mm
Analog input 0→10V / 4→20mA
(FEB2016)



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1 General

This multipurpose electronic LED display for industrial projects like weighing applications, is easy to install and set up. It uses analog signals 0-10Vdc or 4-20mA for showing numeric values like weight, speed, etc.

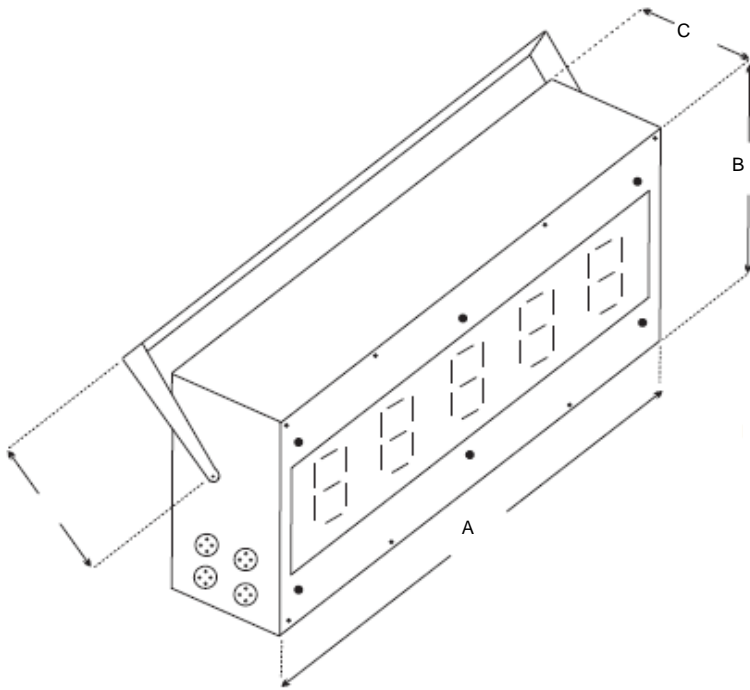
2 Technical data

- Power supply: 110-220 Vac.
- 5 digits, 150mm or 300mm high.
- Operating temperature: -20° to 70°C.
- Humidity 15%-85%.
- Sealing: IP 55 standard.
- Dimensions: 518x239x115mm. (Approx.).
- Weight: 4,3Kg



3 Schema

Digit size (mm)	A (mm)	B (mm)	C (mm)	Weight (kg)
150	518	239	115	4,3
300	1500	420	115	12



Voeding
230Vac

Mang. 3 x 0,75



1-L (blue)
2-N (brown)
3-GND

Analoge
ingang



0-10V

1-not used
2-Signal (black)
3-GND (white)

CELL1: Signal analog input 0-10Vdc (or 4-20mA)

Power supply 220Vac and push buttons for calibrations



4 Calibration

For the calibration you will need to use the push buttons labelled I1, P1 and P2, located on the side of the display

1. Before starting the calibration procedure, check if the analog signal of the weighing system is valid.
2. Start with the analog signal corresponding the zero load situation (e.g. empty hook)
3. Press once the button I1 to start the calibration procedure. The display will restart showing some codes and then a serie of numbers from 00000 to 99999.
4. During the test procedure, press once button P2 when 11111 appears and again P2 when 55555 appears. If successful, the display will show the message CALI.
5. After a few seconds, the message CERO will appear. Be sure the analog signal is corresponding to the zero load at this moment. Then, the display will show the recommended minimum load for the calibration. This is half the value of max weight based on the default settings of the display. After that, if signal is stable, the value 0 will appear, indicating zero signal is properly registered.
6. Now the analog signal should be corresponding to the known calibration load (calibration load on the hook. The display will show a value corresponding to the setting of previous calibration. The value does not has to correspond to the known load lifted.

Press now P2 once to continue with the calibration.

OR

Press P2 during 3 seconds to set up only the zero load. The display will restart with only the zero reference calibrated.

7. At this stage, the first left digit will blink, indicating it's editable. Press shortly P2 to modify the value according the present load. Press then for 2 seconds to confirm the value of the digit and go to the next digit. Repeat until all digits are set properly.

In order to confirm the whole value, press first shortly the button I1 and then shortly button P1. The display will show VALID is the set value is valid and then the message CALIB will blink. At this stage, the display is registering the analog signal that is corresponding to the set value. If the signal is valid and stable, the display will show the message VALID and then the display will restart with the new settings.

Check if the display value is corresponding to the load(s). If not, you may have to repeat the calibration.

REMARKS

During the calibration, following error messages may appear:

ERROR INEST: signal not stable for registration

ERROR MAS GAN: signal difference between zero and loaded state is too small.

Check analog signal and repeat calibration.

5 Special settings

Depending of the capacity you can set the parameters DIV and FRA for a better accuracy or a finer resolution, according the table here below.

REMARKS:

The modifications of the parameters of the display requires a thorough knowledge of the system. It is not recommended to modify the parameters without advice of your dealer. Other parameters than DIV, FRA, and PDE should not be modified. For the most application, the default setting will do.

Value	DIV	FRA
2000	16	1
3200	10	1
4000	8	1
6400	10	2
8000	8	2
10000	16	5
16000	10	5
20000	8	5
(default) 32000	10	10
40000	8	10
64000	10	20
80000	8	20
100000	16	50

5.1 Procedure for special settings

1. To start the program mode, press briefly button I1. Display will restart.
2. When restarting the display will show some codes and then a serie of numbers from 00000 to 99999
3. During the test procedure, press shortly button P2 when the numbers 22222, 55555, 7777 appears. The display will show the message PROG to confirm the display has entered the program mode.
4. Press shortly button I1 to continue.
5. Here is the parameter list you need to follow, after you have entered the menu:
 - a. **DIV**: press shortly button P1 to go to next item or press shortly P2 to modify the value then press P2 for 2 seconds to save an go to the next item
 - b. **FRA**: press shortly button P1 to go to next item or press shortly P2 to modify the value then press P2 for 2 seconds to save and go to the next item.
 - c. **DES**: press shortly button P1 to go to next item.
 - d. **LED**: press shortly button P1 to go to next item.
 - e. **BAT**: press shortly button P1 to go to next item.
 - f. **GAN**: press shortly button P1 to go to next item.
 - g. **PDE**: setting of decimal point: 0 – 5 (from left to right position); press shortly button P2 to modify the value or press P2 for a few seconds to save the parameter and go to the next parameter.
6. If the parameters are set correctly, press button I1 to save the setting and restart the display with the new parameters.

5.2 Status “BLOC”

The display do not allow more than 5 successful calibrations. If the number of calibration exceeds this value, the display will show the message BLOC when you start a new calibration.

If a new calibration is required, the calibration counter can be reset as follows:

1. Start the program mode by pressing once the I1 button. The display will restart.
2. When restarting the display will show some codes and then a serie of numbers from 00000 to 99999
3. During the test procedure, press shortly button P2 when the numbers 22222, 55555, 7777 appears. The display will show the message PROG to confirm the display has entered the program mode.
4. Press shortly button I1 to continue
5. Press now P1 several times until message CAL-r appears
6. Press P2 button for 2 seconds. Display will show VALID to confirm calibration counter has been reset.
7. Press I1 button to restart the display with reset calibration counter.