

# CDG 3A

## HYGIENIC JUNCTION BOXES

LAUMAS®



DESCRIPTION	CODE
Equalization board	CDG4EQ3A
Parallel connection board	CDG43A

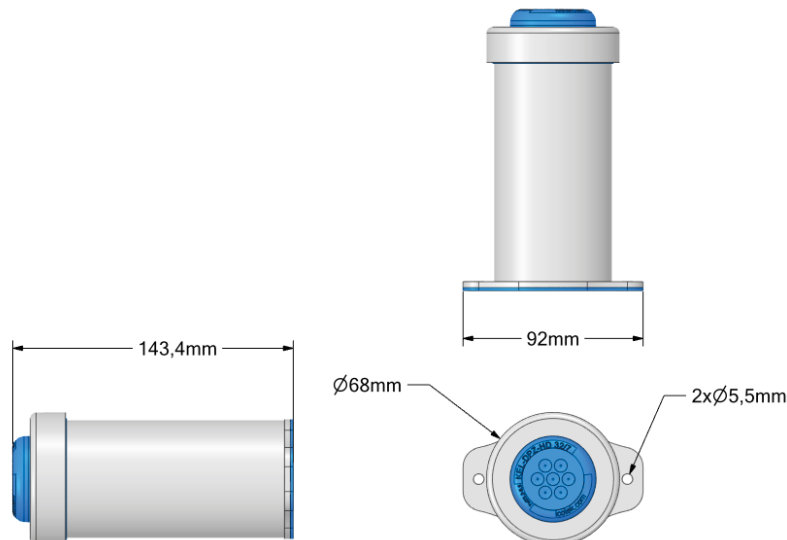
- Hygienic junction box in AISI 304 stainless steel.
- Cylindrical design to facilitate sanitization.
- IP68 protection rating.
- Blue hygienic cable gland for passage up to 7 cables.
- Hygienic device RPSCQC authorized by 3-A SSI.
- Working temperature: -20 °C +60 °C.
- Up to 4 load cells connection (4/6 wires).
- Two hygienic M5 screws with seal (included in the supply).

### CERTIFICATIONS



American standard that regulates the design, production and use of hygienic equipment

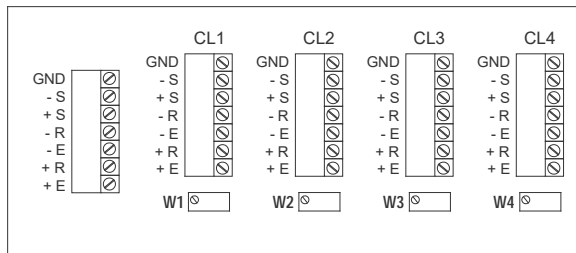
### DIMENSIONS (mm)



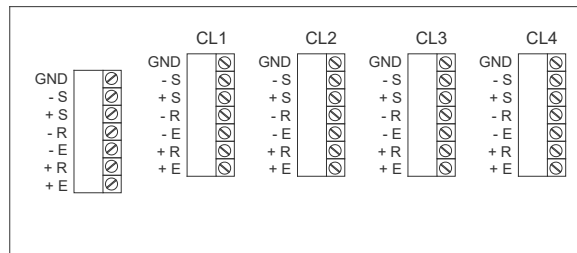
Rev. 0.0

### ELECTRICAL CONNECTIONS

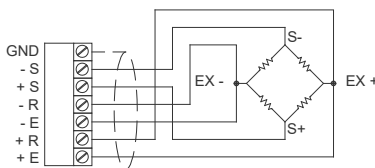
CDG4EQ3A



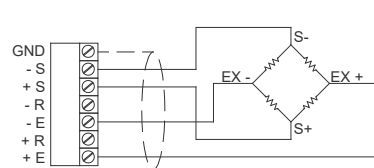
CDG43A



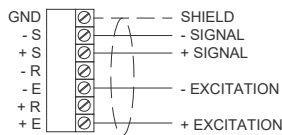
6-WIRES LOAD CELLS CONNECTION



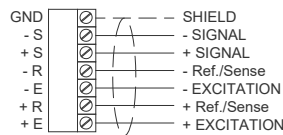
4-WIRES LOAD CELLS CONNECTION



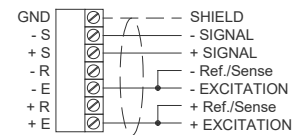
4-WIRES OUTPUT CABLE WITH 4 WIRES LOAD CELL



6-WIRES OUTPUT CABLE WITH 6 WIRES LOAD CELL



6-WIRES OUTPUT CABLE WITH 4 WIRES LOAD CELL



### EQUALIZATION PROCEDURE (CDG4EQ3A)

#### WARNING!

- For load cells with 2 mV/V sensitivity the difference between the sensitivities must not be greater than 0.1 mV.  
For load cells with 3 mV/V sensitivity the difference between the sensitivities must not be greater than 0.15 mV.
- CDG4EQ3A: the board is equipped with a 20  $\Omega$  potentiometer for each load cell.

#### Example with 4 load cells and a sample weight of 978 kg:

- Turn the potentiometers' screw counterclockwise until to 0  $\Omega$ .
- Place the sample weight in correspondence with the CL1 load cell and take note of the value shown on the display; repeat the same operation for all load cells.  
Example: CL1 = 1008 kg CL2 = 998 kg  
CL3 = 973 kg CL4 = 985 kg
- Adjust the potentiometers related to the higher weight values (W1, W2, W4), leaving the lowest one unchanged (W3).
- Place the sample weight in correspondence with the CL1 load cell; by adjusting the potentiometer W1 change the value shown on the display from 1008 kg to 973 kg.
- Place the sample weight in correspondence with the CL2 load cell; by adjusting the potentiometer W2 change the value shown on the display from 998 kg to 973 kg.
- Place the sample weight in correspondence with the CL4 load cell; by adjusting the potentiometer W3 change the value shown on the display from 985 kg to 973 kg.
- Place the sample weight in correspondence with the CL3 load cell and take note of the value shown on the display, for example 966 kg.
- Place the sample weight in correspondence with the CL1 and adjust the potentiometer W1 until 966 kg is displayed.
- Place the sample weight in correspondence with the CL2 and adjust the potentiometer W2 until 966 kg is displayed.
- Place the sample weight in correspondence with the CL4 and adjust the potentiometer W4 until 966 kg is displayed.
- Place the sample weight in correspondence with the CL3 and take note of the value shown on the display, for example 962 kg.
- Repeat the procedure several times until the display shows the same weight value for all four load cells.
- Remove the sample weight and zero the tare, then place the sample weight in the middle and calibrate the instrument (see the instrument's user manual).