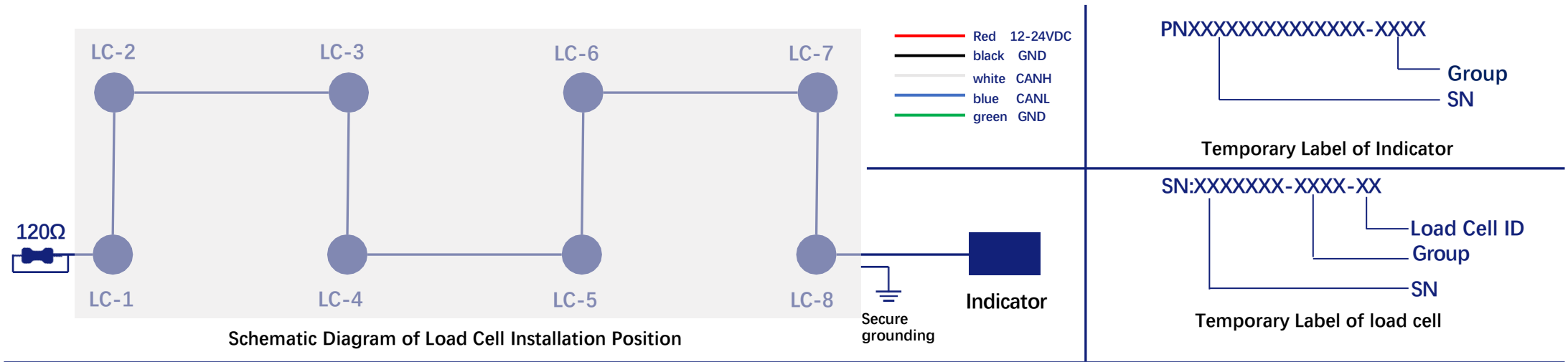


Precautions for Installation of P580SD + EM203D



Precautions:

Load Cell Networking: After the load cell connection is completed, an automatic addressing should be carried out in coordination with the used indicator (this operation has been completed during the factory inspection). After the addressing is successful, the system will automatically assign an ID. Please carefully check the load cell SN code and the assigned ID, and then install them in the position sequence as shown in the diagram for the convenience of later operation and maintenance.

Installation Pre-test: After the load cell addressing is completed and the load cell works normally, enter the internal code page to view the internal code. Record the initial zero internal code value of the corresponding SN/ID load cell in sequence, and apply pressure on the corresponding load cell. If the corresponding internal code value increases, it indicates that the test is normal.

Load Cell Installation: Install the load cells that have passed the pre-installation test according to the positions shown in the diagram to ensure that each load cell is under pressure. After the installation is completed, check the internal code of each load cell again. The difference between the current internal code and the zero internal code value is the current pressure on the load cell. Adjust the installation height of each load cell according to the internal code difference, and finally control the error of the difference between the internal code differences of each load cell to be less than 20% (this is the physical corner difference adjustment). It should be noted that the scale body and the indicator must be reliably grounded.

Pre-load Test: After completing the physical corner difference adjustment of the load cell, it is necessary to pre-load the scale with a weight of not less than 50% of the scale capacity to make the relative position of the load cell and the scale body more stable. After pre-loading, check the internal code difference of each load cell again. If it does not meet the requirements, re-adjust the installation height of the load cell as described in step 3 to optimize the physical corner difference.

Automatic Corner Difference Adjustment: When the internal code difference of each load cell is within the allowable range after pre-loading, enter the automatic corner difference adjustment page and load a weight of not less than 5% of the scale capacity in sequence at the positions shown in the diagram as per the prompts. After the adjustment is completed, a calibration should be carried out using this weight. After the calibration is completed, re-measure the correction effect of each corner in sequence. Generally, the error of each corner is required to be less than 1/10000 of the scale capacity.

Manual Corner Difference Adjustment: During the re-measurement of the automatic corner difference adjustment, if an individual corner does not meet the allowable error, the SN/ID of the load cell with a larger error should be recorded during the re-measurement, and its coefficient should be modified on the manual corner difference adjustment page. After the modification, return to the home page to check whether it meets the requirements, and adjust repeatedly until the error of each corner meets the requirements.

Calibration: After the adjustment of the error of each corner is completed, calibrate the scale with a weight of not less than 50% of the scale capacity using two or more points. After the calibration is completed, conduct a repeatability test on the scale. Generally, the repeatability error is required to be less than 1/10000 of the scale capacity.

Load Cell Replacement: If the load cell needs to be replaced due to uncontrollable factors during use, after replacement and addressing, if the SN/ID is not assigned according to the position relationship shown in the above diagram, the SN/ID can be adjusted to be consistent with the above diagram on the manual address change page for the convenience of later operation and maintenance. Subsequently, carry out adjustment and test in accordance with the steps of "Pre-load Test", "Automatic Corner Difference Adjustment", "Manual Corner Difference Adjustment", and "Calibration".