

Low-profile load-cell floor scale Instructions for Use

TL-PS/PP/PM/PF/LF

Introduction

Thank you for purchasing the TL-PS/PP/PM/LF floor scale.

Please read this manual completely before using this product to achieve its best performance and ensure safe and proper operation.

IMPORTANT SAFETY INSTRUCTIONS

-Prohibition of use in water discharge or submersion

-Since this machine has a non-waterproof structure, the weight sensor and board inside the floor scale may be damaged if it is discharged or submerged.

-Disassembly prohibited

Do not disassemble anything other than the "scale" cover (SUS-304).

If you disassemble the inside, you will not be able to maintain the performance and the safety will be impaired, so please do not disassemble.

-Ground wire connection

Be sure to connect the shielded wire to the ground wire before use.

Connection method

The cable tip connection for the low-floor platform scale is as follows.

Red	input (+)
Black	output (-)
Blue	input (-)
White	output (+)
Yellow	shield

Follow the colors above and connect to the appropriate location on your digital indicator or signal conditioner.

Precautions about the ground plane

-Make sure that the ground plane of the floor scale keeps horizontal.

If the ground plane is tilted, it may show a value different from the actual load value.

When a load is applied to the floor scale, do not twist it or apply a concentrated load to a part of it.

-If the ground plane is uneven and cannot keep horizontal, lay a hard rubber mat or finish the floor with resin mortar, etc., and apply the load to the entire bottom surface of the floor scale.

Fixing method

There are the following two fixing methods.

1. How to fix the lower plate of the floor scale on the floor

Remove the screws on the top cover of the floor scale and fix the bottom plate with anchor bolts. If the bottom surface is floating, the measured value will be greatly deviated.

Drop the hexagon socket head cap screw from the bolt hole on the upper plate of the load cell, and fix the lower plate of the load cell to the floor surface with taps in advance.

The hexagon socket head screws used are as follows.

Hexagon socket head bolt	Floor scale model
M-4	PS-12, PP-12
M-6	PS-18~60, PP-18~50, PM-21, PF-18

2. Fixed by frame

If an object comes into contact with the upper cover of the floor scale, it may cause an error. Therefore, fit only the lower plate of the floor scale into the frame so that it does not come into contact with the cover.

Usage environment and precautions

-When the temperature changes suddenly due to direct sunlight or hot air around the floor scale, the load value may become significantly different. In such a case, place a shield to avoid sudden temperature changes.

-If vibration or shock is applied to the mounting surface of the floor scale, the indicated value may not be stable due to the influence of acceleration, so avoid them while measuring the load.

-Please note that if the floor scale is exposed to water or chemicals, the insulation will deteriorate and it may cause a malfunction. If you are exposed to water or chemicals, you need to inspect it to see if there is any failure.

-If an object comes into contact with the cover on the floor scale, a measurement error will occur, so be careful not to touch the cover.

-When measuring the resistance and insulation resistance of a floor scale, use an electronic resistance tester of 50V or less. Do not use it with a mega, etc., as it will damage the strain gauge, temperature compensation resistor, etc.

-Never lean or drop the floor scale at the time of installation, and never apply an impact load to the top of the floor scale.

Contact information

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