

SCALE DEVICE

UTICELL A100

ASSEMBLY INSTRUCTIONS

DELIVERY INFORMATION

Inspection of goods

Check that the number of packages matches the packing list and that the package and the items are intact. Mark any damages and missing materials on the packing list and report to the transport company and Arskametalli. Do not install any faulty or incorrect materials.

Warranty

For scale device manufacturer gives a 1-year factory warranty starting from the date of delivery.

The warranty requires that owner of the product makes a announcement and a warranty application immediately after broke directly to manufacturer. If the faulted part and the warranty application haven't been delivered to warranty check to the manufacturer within two weeks of breaking, it won't be dealt as a warranty issue. The manufacturer is not responsible of additional warranty given by distributor.

The warranty requires that during the assembly there has been followed valid orders and manufacturer's instructions. Warranty covers production and material faults. Warranty does not cover faults caused by wrong assembly, improper using or neglecting the maintenance.

Technical information

- RS232 serial communication port
- 2x output (max. 300mA)
- 7-24VDC power supply
- IP65 protection rating
- Manufacturer: Vaakatalo Oy, Lukinkatu 10, FI-33580 Tampere

More information and troubleshooting guides from the manufacturer.

SAFETY

The product must be installed by a person who is suitably qualified. During assembly work follow valid safety orders.

Use the product only for its intended purpose. Do not modify the product in any way. Unauthorised modifications may impair the functionality and safety and affect the product's service life. Any modification of the product voids the warranty.

Assembly done wrong can lead to personal injuries or cause damage to the product. Incorrectly installed product may not work right and the capacity may drop. Read this manual carefully well before starting the assembly, maintaining or using.

Electrical safety

- Only professional and qualified electricians should install electrical equipment connections.
- Power switch must be fixedly installed and placed such that it's easy to reach during maintenance work.
- Make sure that the motor cover switch has been set into the right ampere referred to motor.
- Make sure that there's not any dirt, dust, moisture or electrostatic charge in the electric devices.

Signal words

NOTE!

The note text contains information that makes the installing easier.

IMPORTANT!

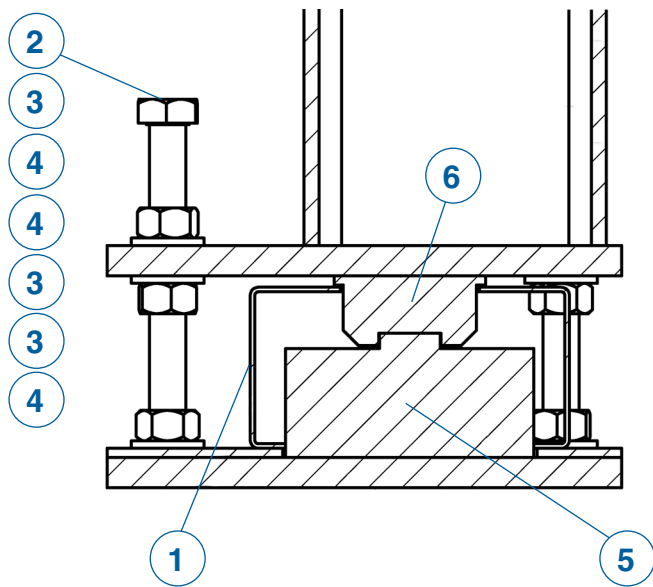
If caution text instructions are not followed, the product may be damaged. It can also result in incorrect operation or capacity decrease.

WARNING!

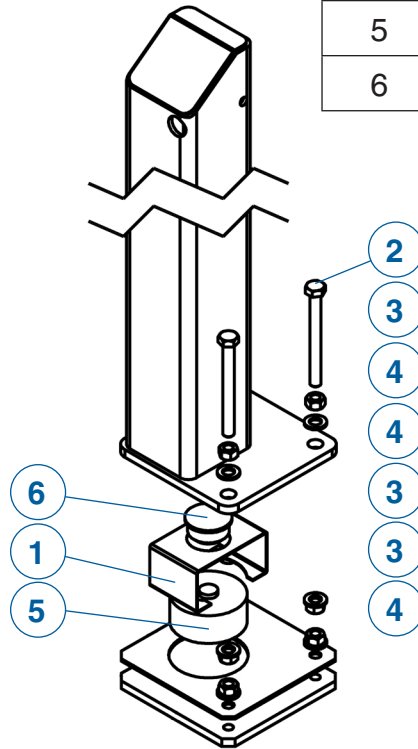
If warning text instructions are not followed, it could result in serious or life-threatening injuries.

ASSEMBLY

Installing the scale sensors



PART	DESCRIPTION
1	Guide
2	Hexagon screw
3	Washer
4	Hexagon nut
5	Scale sensor
6	Insert



1. Install the mounting brackets as shown in the picture on the legs of the dryer or silo.
2. Make all mechanical installations (welding etc.) before installing the scale sensors.
3. Raise the dryer or silo using the nuts. Install the sensors, inserts and guides. Center the sensors in 3mm plate openings.
4. Loosen the nuts and check that the silo or dryer rests smoothly on the sensors. Leave the nuts on the bottom of the dryer or silo near the surface of the plate to prevent the tilting of the dryer or silo.

IMPORTANT!

When the sensors are installed, the structure must not be welded. Welding can break the sensors.

Connecting cables

Connect the cables when all the brackets and sensors are installed. Pull the sensor cables to the connection box so that the cables can not be damaged during the installation phase or in use. Peel off the sensor heads and ja connect them to the box according to the color. The positions of the terminal blocks are marked in the box.

CONNECTION OF SENSORS

BOX	SENSOR
-Exc	In-
-Sig	Out-
Shld	<i>shield</i>
+Sig	Out+
+Exc	In+

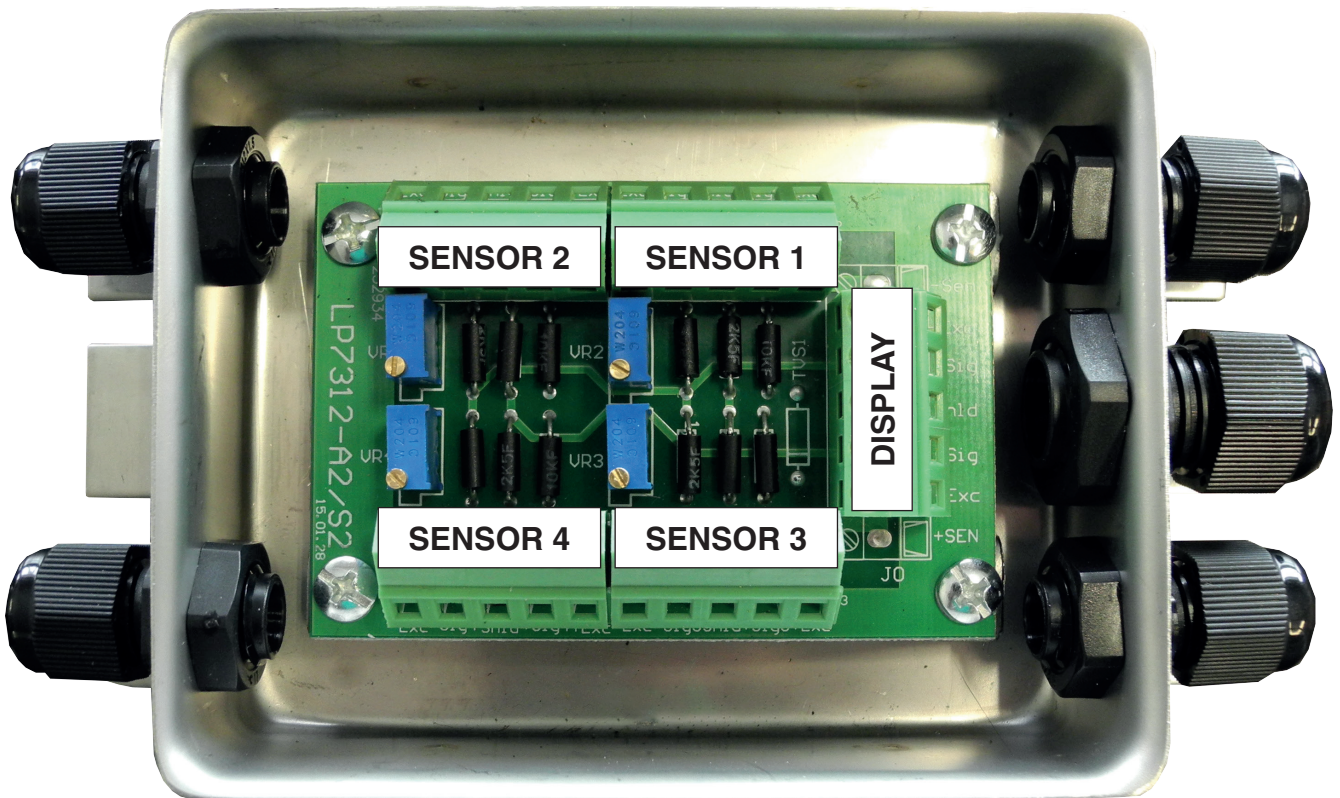
Check the wiring colors from the sensor label.

CABLE BETWEEN DISPLAY AND CONNECTION BOX

BOX	COLOR	DISPLAY
-Exc	blue	EXCITATION -
-Sig	yellow	SIGNAL -
Shld	<i>shield</i>	Earth
+Sig	green	SIGNAL +
+Exc	red	EXCITATION +

! NOTE!

According to cable type the colors may vary.







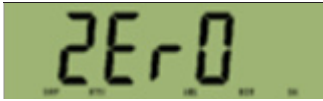









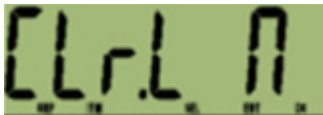


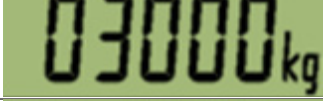










Calibrating the scale

Scale display has so-called millivolt calibrating, which is indicative. Actual, accurate calibrating can only be done with the known weight. Known weight (SPAN) should be at least 1/3 of the sensor total capacity, minimum of 10 tons.

IMPORTANT!

Dryer must be empty when you start calibrating.

<p>1.  </p>	<p>Push POWER and F at the same time for 2 seconds › Menu opens.</p>	
<p>2.  ZERO</p>	<p>Push ZERO twice (2X).</p>	
<p>3.  TARE</p>	<p>Push TARE once (1X).</p>	
<p>4.  SELECT</p>	<p>Remove all weight from the scale and push SELECT once (1X).</p>	
<p>5.  PRINT</p>	<p>Push PRINT once (1X). Z in P (zero search in progress). Scale shows zero.</p>	 
<p>6.  TARE</p>	<p>Push TARE twice (2X).</p>	
<p>7.  </p>	<p>Push F twice (2X). clear linearity Y = yes, N = no (not relevant to normal calibrating)</p>	
<p>8.</p>	<p>Place a known weight to the scale. The scale display shows the weight (not real).</p>	
<p>9.  PRINT</p>	<p>Push PRINT once (1X).</p>	
<p>10.</p>	<p>Enter the known weight, which is on the scale. Use the arrow keys to move from one number to another.</p>	
<p>11.  </p>	<p>Push F to start calibrating. S in P (calibration in progress). Scale is calibrated to show known weight.</p>	 
<p>12.  </p>	<p>Push POWER and F at the same time for 2 seconds › settings are saved and the scale restarts.</p>	



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