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# Assembly manual

ITKM-002-01-03-19-EN

## Stand for terminal

SH01.EX

MARCH 2019

## PRECAUTIONS

Prior to installing, using or maintaining the SH01.EX stand, it is necessary to read this manual and act accordingly to its guidelines. This user manual must be within the operator's reach in the course of device operation.

	Symbol marking sections that are extremely important for protection against explosion.
	The device must be applied in accordance with the intended use only.
	Prior to the installation of the device, it has to be analysed by qualified personnel to determine whether the device complies with the usage requirements regarding a particular hazardous area.
	In case of any sign of damage, the device has to be moved out of the explosion-endangered area without any delay. The damaged component must be replaced or repaired by RADWAG service immediately.
	While installing the device, it is necessary to strictly follow this user manual's requirements. Not adhering to the requirements results in loss of explosion safety.
	SH01.EX stand may be used as a component of a device/set intended for operation in a hazardous area. The manufacturer of such device/set is obliged to carry out an analysis of the complete device/set in order to confirm compliance with standards.
	The device has to be connected to a grounded indicator at all times.
	The device cannot be used in places where there are mechanisms that cause electrostatic charging stronger than manual rubbing of the surface.
	Do not apply protection shields.
	Technical condition of the frame must be tested and inspected by trained personnel, in accordance with this user manual, at least once every three months.

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## 1. INTENDED USE

The stand is designed to mount the weighing indicator in a position that allows it to be operated in a standing position. The device is developed in accordance with 2014/34/EU directive and can operate in an environment containing explosive gases and dusts, classified as zones: 1, 2, 21, 22.



*View of the stand*

SH01.EX stand is a device intended for permanent installations. It cannot be used while moving.

## 2. CONDITIONS OF USE

### 2.1. Electrostatic charges hazard

In order to minimize electrostatic charges hazard, it is necessary to:

- ensure constant connection to a grounded indicator during use,
- follow cleaning-relevant recommendations that are to be found in section 6 of this user manual.

### 3. WARRANTY CONDITIONS

- A. RADWAG feels obliged to repair or exchange all elements that appear to be faulty by production or by construction.
- B. Defining defects of unclear origin and means of their elimination can only be realized with assistance of manufacturer and user representatives.
- C. RADWAG does not bear any responsibility for damage or losses resulting from misuse, or unauthorized use or servicing.
- D. The warranty does not cover:
  - mechanical damage caused by product exploitation other than intended, damage of thermal and chemical origin, damage caused by lightning, overvoltage in the power network or other random event,
  - inappropriate cleaning habits.
- E. Loss of warranty takes place if:
  - a repair is carried out outside RADWAG authorized service point,
  - service claims intrusion into construction by unauthorized people,
- F. Contact with the central authorized service: +48 (48) 386 64 16.

### 4. SECURITY REQUIREMENTS

Prior to the first use, carefully read this User Manual. Use the device only as intended.

SH01.EX stand might be used in:

- zones 1 and 2 where there is a risk of explosion due to mixture of air with vapour, mist or gas, classified as explosion group IIC, IIB and IIA and as temperature class T1, T2, T3, T4.
- zones 21 and 22 where there is a risk of explosion due to mixture of air with dust, flammable fibres and volatile fuels, classified as explosion group IIIC, IIIB and IIIA.

**Explosion safety for HX5.EX-\* scales is ensured by:**

- Construction meeting the series PN-EN 60079 standards requirements.
- Excluding the possibility of electrostatic charges accumulating on the external elements of the stand by connecting it permanently to a grounded weighing indicator. Disconnecting (e.g. when it is necessary to move the device) is only allowed in conditions where there is no danger of an explosive atmosphere.
- **Adhering to this user manual guidelines.**

## 5. TECHNICAL CONDITION INSPECTION

	<b><i>The technical condition operated must be tested and inspected by a trained personnel (familiar with this user manual content) at least once every three months.</i></b>
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During each inspection, the status of the electrostatic connection of the stand to the grounded indicator should be checked, including:

- connection resistance – max. 100Ω.
- indicator tightening – any visible loosening of mounting bolts is unacceptable: bolts' tightening torque – 0,5Nm.

## 6. MAINTENANCE

You can clean the indicator using regular household cleaners.

	<b><i>Clean the indicator when there is no risk of occurrence of explosive atmosphere.</i></b>
	<b><i>Clean the stand using a wet cloth. It is especially important if the scale is operated in a room where there is dry air. Moisture protects against accumulation of electrostatic charges.</i></b>
	<b><i>Using compressed air for cleaning is prohibited.</i></b>

## 7. SERVICE AND REPAIR

In case of any problems with correct operation of the device, contact the closest manufacturer's service point.

In case of defects, deliver the faulty product to the manufacturer's service point. If the product cannot be delivered to the manufacturer's service point, call the service and report the defect. Repair scope and method will be set up.

	<b><i>It is NOT ALLOWED to carry out any kind of repair of the device on one's own. Any attempt of scale modification, repair etc., by unauthorized persons, will result with loss of validity of manufacturer-issued certificates, declarations and warranty.</i></b>
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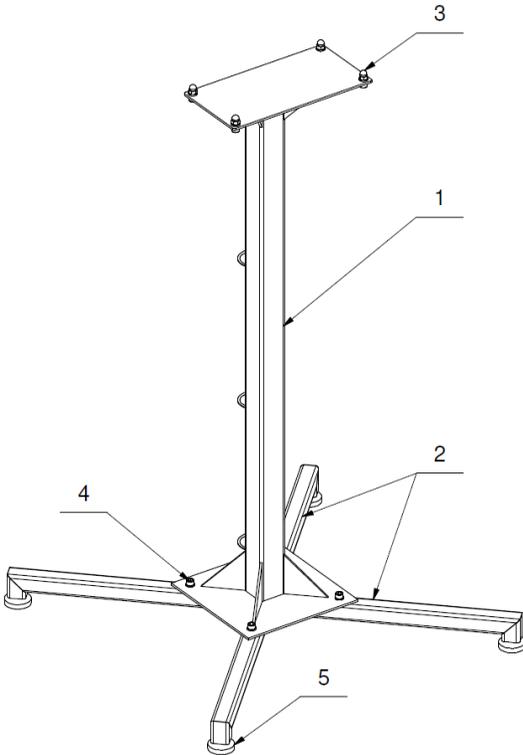
## 8. RECYCLING

SH01.EX stands must be recycled, they are not to be treated as a regular household waste. Platforms to be decommissioned must be decommissioned in accordance with valid legal regulations.



## 9. STAND CONSTRUCTION

SH01.EX stand consists of a structure made of stainless steel and legs that allow for the elimination of small surface irregularities.



*View of the main elements of stand's construction*

- 1. *Bracket*
- 2. *Crossbars*
- 3. *Indicator mounting elements*
- 4. *Crossbar mounting elements*
- 5. *Screw-in legs*

## 10. STAND ASSEMBLY

Before using, please read this user manual carefully and use the device as intended.

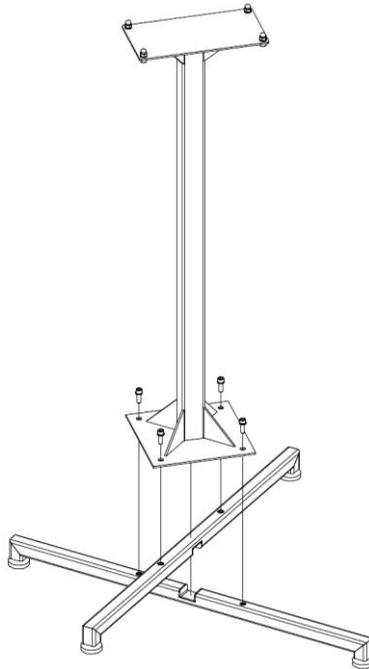
The manufacturer is not responsible for damages caused by the incorrect installation of the device and use not in accordance with the device's intended purpose.

Stages of installation:

- Unpacking and montage.
- Weighing indicator mounting.
- Installation in the place of use.

### 10.1. Unpacking and montage

- The stand should be unpacked in the safe zone.
- Remove the transport safety after removal from the factory packaging.
- Screw the crossbars to the bracket according to the picture below.



*Crossbars montage*

- Screw in the legs.

## 10.2. Weighing indicator assembly

- Assemble the indicator accordingly to the picture.



*Indicator assembly*

## 10.3. Installation at the place of use

- An appropriate place of use should be prepared for the SH01.EX stand.
- Position the stand in the place of use and adjust its legs.
- Check the resistance of metallic parts.



***Mounting the weighing indicator, setting up the stand, and grounding shall be carried out at a time when there is no danger of an explosive atmosphere.***

### 10.3.1. Place of use

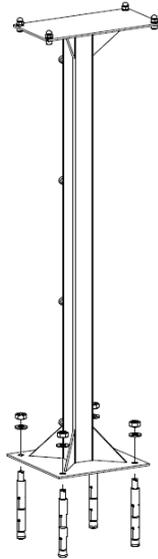
Requirements for the place of use of the HX5.EX-\*:

- Dry, even, horizontal surface.
- The scale is away from heat sources and is protected against excessive temperature fluctuations.
- No mechanical shocks and vibrations.
- The scale is protected from mechanical and chemical exposures.
- The workstation must be located in a considerable distance from processes where mechanisms causing electrostatic charges greater than those caused by rubbing the surface by hand, occur.
- No exposure of platform to sunlight.
- At the workstation there must be MEB (main equipotential bonding) installed.

### 10.3.2. Installation at the place of use

SH01.EX stand is a device intended for permanent installations. It cannot be used while moving.

Place the stand with the indicator on the ground and adjust the stand legs. Stand SH01.EX does not require additional attachment to the ground when positioned at the point of use. If it is necessary to bolt the stand to the ground, do not screw the crossbars to the stand support and use the holes to screw in the bolts.



*Bolting the stand*

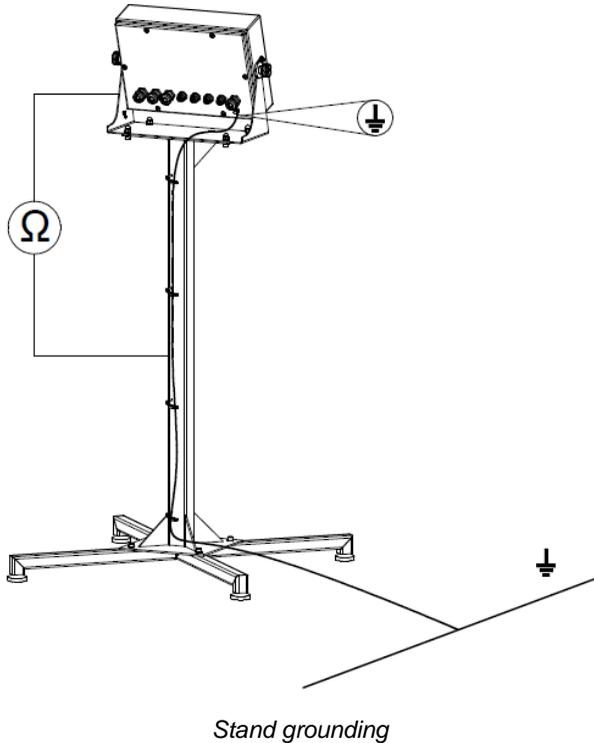
Bolts that attach to the ground are not standard equipment on the stand.

### 10.3.3. Testing the resistance of metal parts and grounding

Once the stand is positioned at the point of use and grounded to the cooperating indicator, check the resistance between the metal parts. Perform the meter grounding method according to the requirements contained in the indicator instructions.

Permissible resistance between individual metal elements is less than 100Ω.

	<p><b><i>In order to prevent the collection of electrostatic charge on the ramps, it is necessary to connect the ramp to a grounded platform via a connection cable. The connection point of the cables is marked with a '⏏' symbol.</i></b></p>
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## **11. STANDARDS**

The device is manufactured in accordance with the following standards:

1. PN-EN 60079-0:2013-03 + A11:2014-03 *Explosive atmospheres - Part 0: Equipment - General requirements.*

