

Doc no: TE-s-series-02		Written by
Date: 07. Dec. 23		Morten Hanssen
Revision no.	Installation of Sharebox s-series kiosk on original base	
03		

Installation of Sharebox s-series kiosks



Due to the use of heavy machinery lifting and moving large heavy objects, there is a risk of serious injury and harm.

The purpose of this guide is to help reduce these risks during installation.

Make sure to read and understand all steps on the following pages.

For professional use. A site survey must have been completed before installation.

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1 Health and Safety

Health and Safety aspects are amongst others:



Risk of getting crushed when lifting and placing concrete base and kiosk.



That the kiosk can tumble over when lifting and placing the kiosk.




Crushing fingers when opening or closing the door.



High voltage hazard with risk of electric shock, burns and fire.

N.B! The electric circuit must be off during lifting, placing and while pulling and attaching cables.

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2 Machinery and tools for installation

Before we get started, let's make sure you have the necessary machinery and tools for the installation.


A forklift or a jack trolley is needed to move the kiosk and base in place. For anchoring, a Hammer drill is needed.

Make sure your machinery is of sufficient capacity and in a good working order.

Please note: Always wear appropriate personal protective equipment (PPE), such as gloves, boots, helmets, goggles, et cetera.



Disclaimer: This guide cannot foresee all variations in local conditions, skills, procedures and so on. Caution and common sense are essential for a safe installation.

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3 Legal and insurance aspects of kiosk anchoring

For insurance compliance, leading security, and safety institutions like VdS (Germany) and FG Skadeteknikk (Norway) emphasize the importance of secure weight and anchoring. Specifically, the tear-away weight required to tear the kiosk either out of the wall or out of the floor must be at least 1000 kg/ 2204 lbs. Sharebox recommend anchoring all kiosks in place. S-kiosks and assemblies are designed for anchoring.

Disclaimer: In certain environments the s-kiosk may be installed without anchoring. This may infringe insurance terms and conditions and remains the responsibility of the customer.

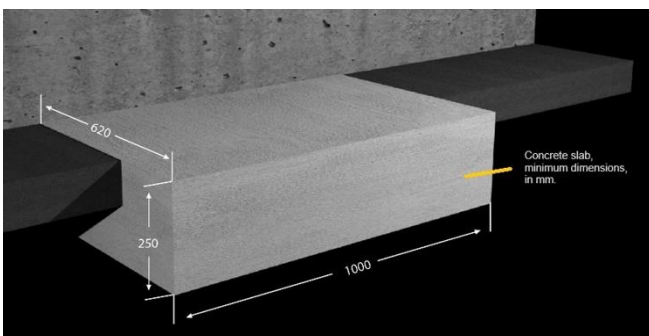
4 Concrete slab properties

Before installing the kiosk in a designated spot, the immediate surroundings need to be prepared.

If the ground is something else than concrete (e.g. asphalt), a concrete-slab must be cast into the ground. This is also a nice way to level off the footprint of the cabinet.


Use extra reinforcement of the concrete, depending on the ground conditions and/or fibre reinforced concrete.

The concrete needs to be minimum 250mm/ 9.843in thick to allow proper fixing of expansion anchors.

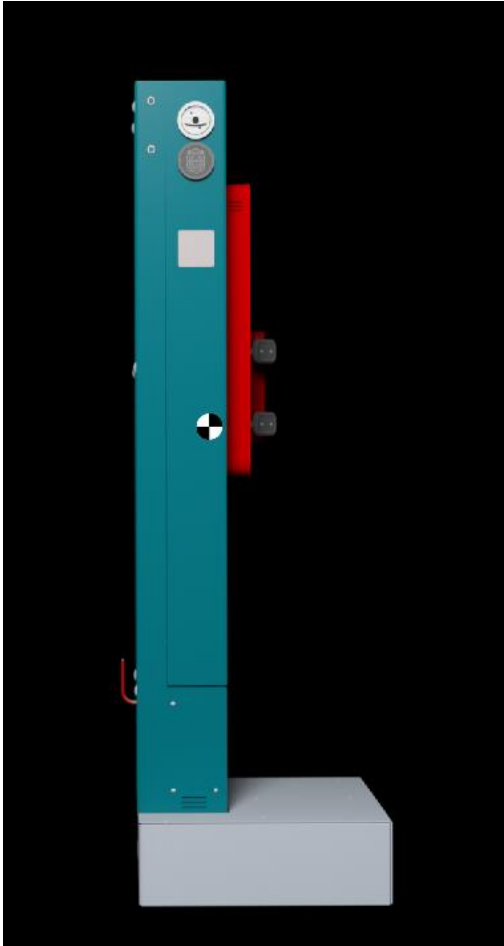


Size of Concrete slab needs to be at least $W \times L \times H = 1000 \times 620 \times 250\text{mm} / 39.37 \times 24.41 \times 9.843\text{in}$

The mounting surface also needs to be levelled and uncracked, minimum quality C20/25.

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5 High Center of Gravity (CoG)



The Sharebox s-series kiosk is a heavy object, approximately 543 kg/ 1197 lbs, with a high center of gravity.

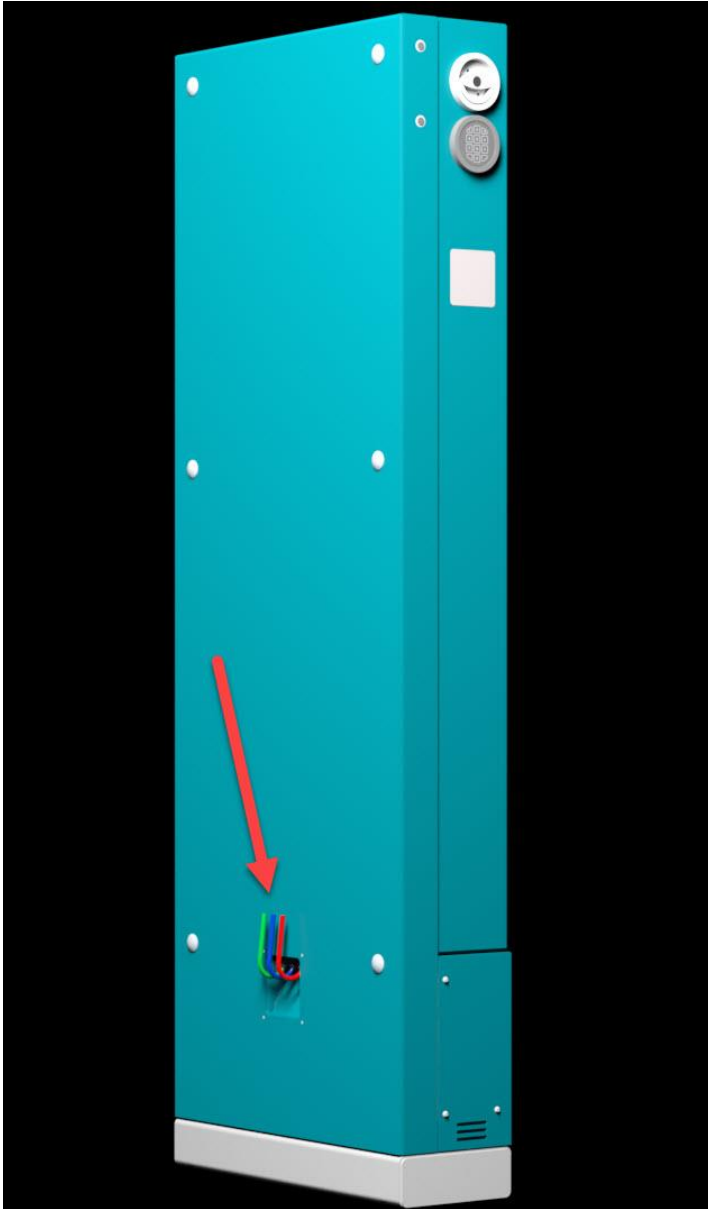
This can cause instability during transport and handling.

For this reason, extra caution is necessary.

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6 Minimum space requirements

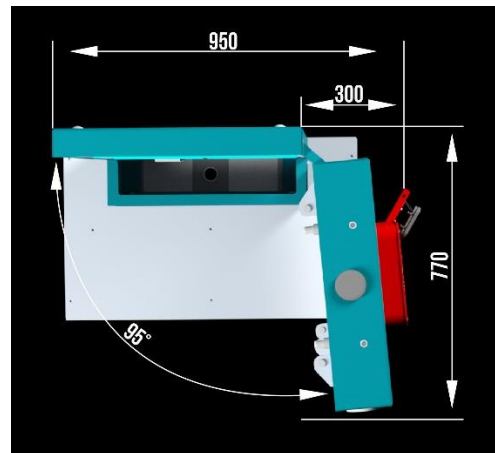
Minimum space requirements are:




Above top, for maintenance:
30mm/ 1.2 Inches

Service position open door:
Additional 300mm/ 11.8 Inches to the right of kiosk footprint.
Additional 545mm/ 21.5 Inches in front of kiosk footprint

At the back, for possible cable routing:
Additional 20mm/ 0.8 Inches:



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7 Placing with original base.



The Sharebox s-series kiosk is delivered on an easy-to-install concrete base.

To run forklift or jack trolley pallet forks into the base, unscrew the T25 Torx screws and remove the base front plate.


NOTE: Before moving, please use caution and check that the forks are completely inserted under the base.

This reduces the risk of the kiosk falling backwards.

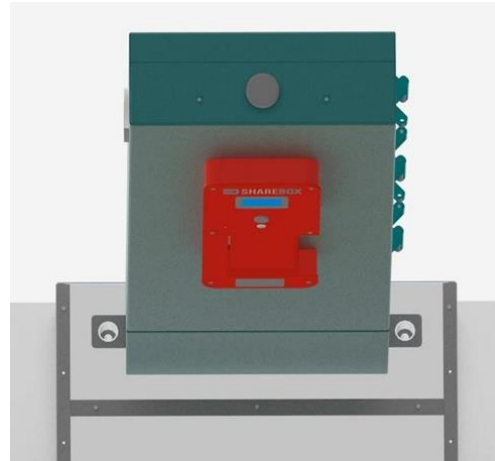
Disclaimer: Installation without anchoring may infringe insurance terms and conditions and remains the responsibility of the customer.

Sharebox recommend anchoring all kiosks in place. For this reason, the Sharebox s-kiosk, concrete base and metal base are designed for use with anchoring to ground and/ or wall. Anchoring reduces the risk of the kiosk tipping over and thus reduces risk of injury or harm by crushing or being trapped.

For insurance compliance regarding safety, leading security, and safety institutions like VdS (Germany) and FG Skadeteknikk (Norway) emphasize the importance of secure weight and anchoring. Specifically, the tear-away weight, the weight required to tear the kiosk either out of the wall or out of the floor must be at least 1000 kilograms. 1000 kg would then be the lowest weight of a kiosk to be installed without anchoring.

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8 Installation and anchoring with original concrete base.



Anchoring of kiosk and base to a concrete slab, is done via the two holes on the concrete base. See illustration.


After aligning the s-series kiosk assembly (kiosk and concrete base) onto the concrete slab, the concrete base metal top plate can be taken off. This is done by removing 8 Torx screws (T25). The two mounting holes for fixing are now visible. Pre-drill into the ground, one hole each side using these premade holes in the base.

Dimensions for ground anchoring, kiosk on concrete base, use 2 Expansion anchors.

Size	M12/ 0.472 in
Bolt-length	250-300mm/ 9.843-11.81 in
Depth of drill-hole	72mm/ 2.83 in
Nom. anchoring depth	64mm/ 2.52 in

Use proper expansion anchor bolts (, e.g. HILTI HSA) to anchor the whole object onto the concrete slab.

After the Sharebox s-series kiosk is properly anchored to the concrete slab, the front plate and top-plate can be placed back on and fastened with the same Torx screws.

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9 Installation and anchoring with metal base

To install and anchor the kiosk with a metal base, the kiosk must be lifted from the original concrete base to the metal base.

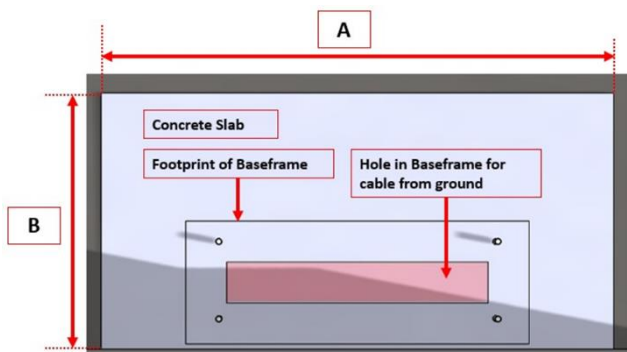
The mounting surface needs to be levelled and uncracked concrete of minimum thickness 250mm, and minimum quality C20/25.

Dimensions for ground anchoring, kiosk on metal base, use 4 Expansion anchors.

Size	M12/ 0.472 in
Bolt-length	100mm/ 3.937 in
Depth of drill-hole	72mm/ 2.83 in, minimum



The metal base can be used as a template to mark-up (and drill) holes. Note that the arrow on the frame is to point to the back / wall. Level the metal base (if needed) and fix it to the ground. The holes are slotted to enable some adjustment of position.



NOTE: The area marked in red shows where it is possible to route cables up from the ground, through the metal base.

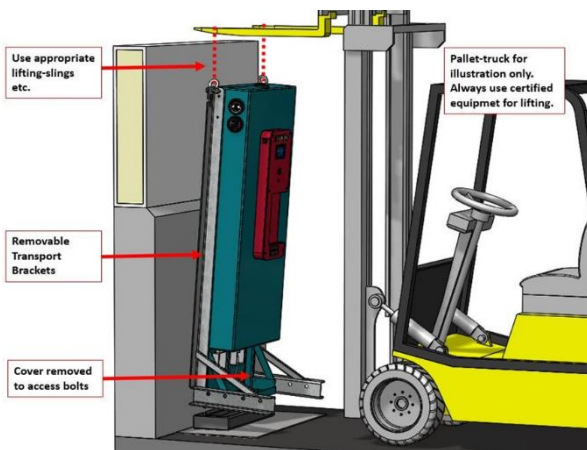
Drill holes for 4 pcs. of expansion-anchors and fit these in accordance with with manufacturer's instructions. Chemical (epoxy, adhesive, etc.) anchoring may be an alternative in some cases. Fasten the 4 nuts to secure the metal base on the anchors from the ground.

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10 Lifting the kiosk onto the metal base



Eyebolts need to be attached to the kiosk and a lifting device during the entire installation. For safety, keep the lifting slings/crane etc. connected during the process.
NOTE: Eyebolts and slings for illustration only.




The original concrete base must be loosened from the kiosk, while held securely in place with slings. Then the kiosk can be lifted and placed onto a metal base.

Use appropriate slings etc. and connect to the eyebolts fixed on top of the kiosk. Weight of the kiosk is approximately 320 kg. Lift the kiosk onto the metal base and align with the 4 holes.

NOTE: Forklift for illustration only. Always use certified equipment for lifting.

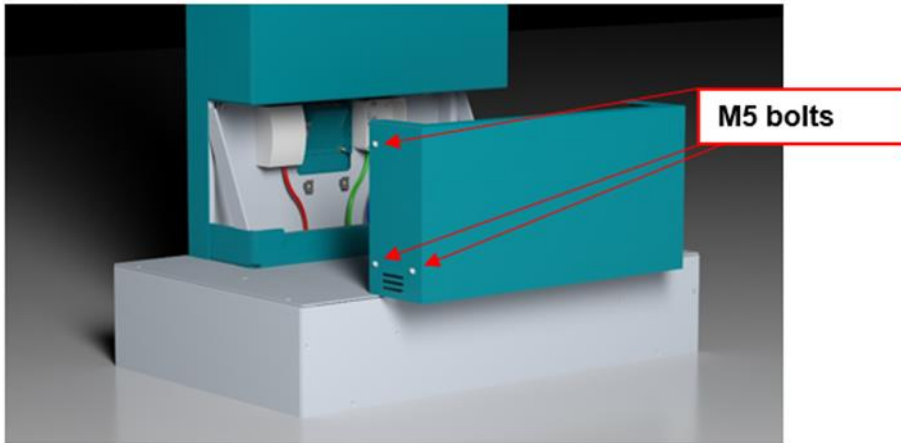
Bolt the kiosk to the metal base with 4 pcs of M12 bolts, nuts, and washers. Keep the lifting-slings attached for safety.

When the metal base is fastened and secured to the ground, and the kiosk, the whole assembly is now stable.

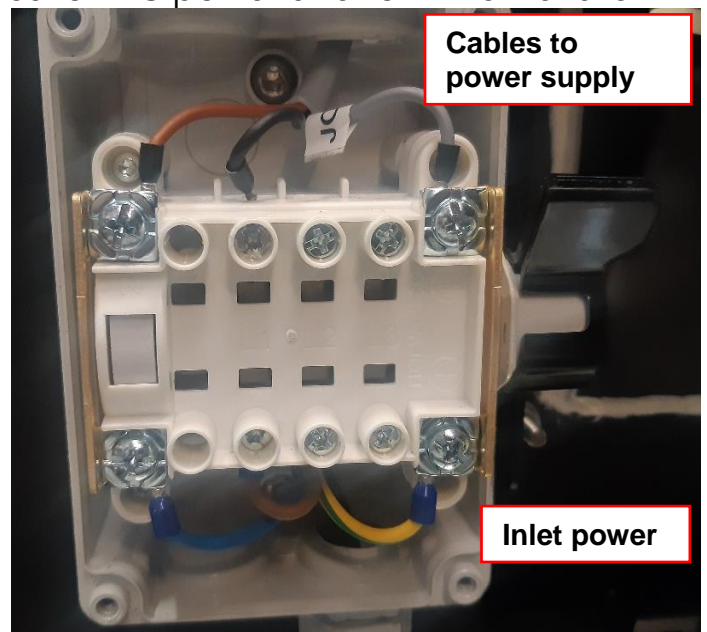
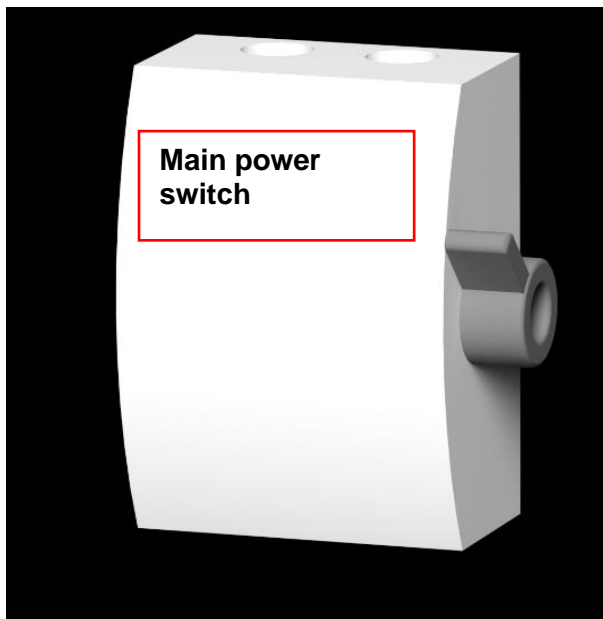
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11 Internal connections

Junction boxes are found behind the low front cover. For access, unscrew the M5 mushroom head screws and remove the low front cover.




Cables for AC power and for Ethernet are



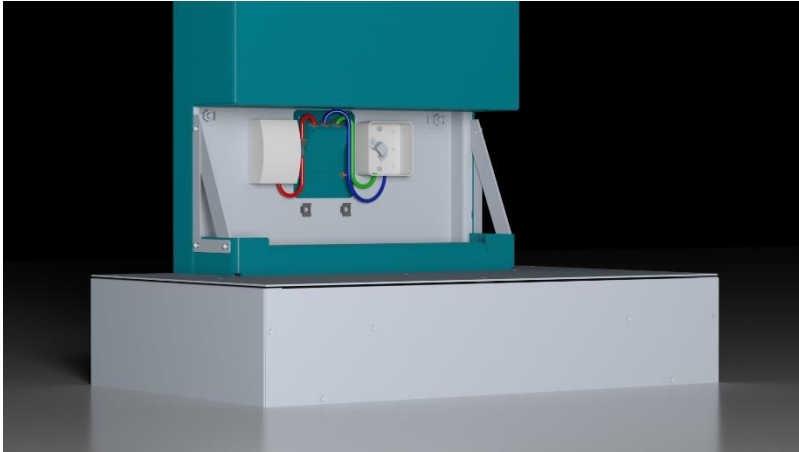
connected in the bottom of the kiosk.

The s-kiosk is fitted with a main power switch. Power cables from the kiosk are pre-installed and ready to be connected to the inlet power.

Alarm connection is optional.

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12 Cable connections



Cables may be pulled through a hole in the back-frame of the kiosk, or through the concrete base, up into the bottom of the kiosk.


Cable connections are fastened in the junction boxes in the lower front of the kiosk.



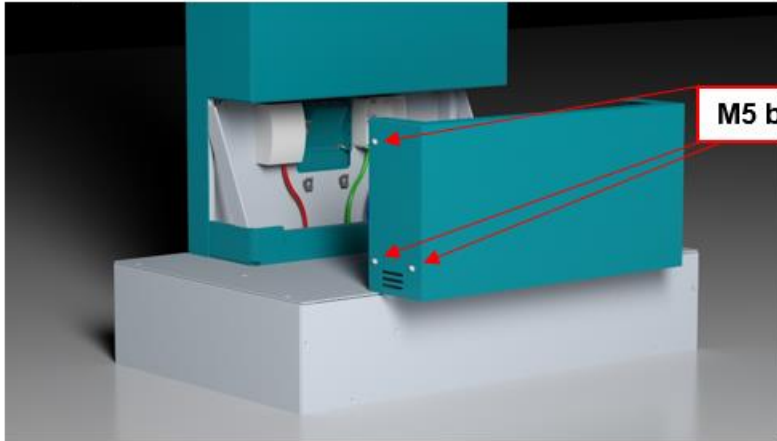
The cables are 110-230V AC power and Ethernet.

Type of cable	Cable-spec	Connector in kiosk
Power Cable 110-230V AC	H07 RN-F, 3 x 2.5kv (OD12mm)	SDS 316 AUX
Data Cable	Cat 5 or better. Shielded	RJ45 Grounded
Optional: Alarm-feedback	2x0.75kv	Wago etc. (reconnectable)

The product is EMC-tested according to standards for "light industry"; EN55032 for emission and EN55024/35 for immunity.

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13 Confirm connectivity.



After fastening cables, fit the lower cover and fix with six M5 “mushroom-head” bolts (A4-stainless-steel).



The kiosk is ready when power and data are connected.


The kiosk responds to its “Location ID number” found on the front plate.

SAT - Site Acceptance Test

Contact your local agent or Sharebox support to confirm that the kiosk is online and perform an SAT test. Fill in the interactive online form found on Sharebox’ web site.

LocationID : 123

+47 40 43 44 44 www.247servicestation.com


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14 Ready to run.

After power on and connectivity on, and SAT test complete, the Sharebox kiosk is ready for use.

If you have any questions, do not hesitate to contact your local agent or Sharebox support.

Thank you for your attention!

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15 Appendix

Dimensions and weights

See an overview of dimensions and weights in these tables:

	Outside total	Outside s-kiosk
Height	2020 mm/ 6.627 ft	1500 mm/ 4.921 ft
Width	996 mm/ 3.267 ft	650 mm/ 2.132 ft
Depth	612 mm/ 2.008 ft	225 mm/ 8.86 In
All tolerances +/- 5mm and +/- 3kg, +/- 0.197 In and +/- 6.61 pounds		
Kiosk weight w/ concrete base	543 kg/ 1197 pounds	
Kiosk Weight wo/ concrete base	320 kg/ 705 pounds	
Concrete base only	223 kg/ 492 pounds	



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Connection ports and details

Suggested spec for incoming cables and port numbers for designated TCP UDP outgoing ports are listed here.

Power and Signal are separated.

The Data cable is shielded and grounded at the connection point.

Suggested spec for incoming cables. Consult a qualified electrician if needed.

Type of cable	Cable-spec	Connector in kiosk
Power Cable 110-230V AC	H07 RN-F, 3 x 2.5kv (OD12mm)	SDS 316 AUX
Data Cable	Cat 5 or better. Shielded	RJ45 Grounded
Optional: Alarm-feedback	2x0.75kv	Wago etc. (reconnectable)

The product is EMC-tested according to standards for "light industry"; EN55032 for emission and EN55024/35 for immunity.

The kiosk communication is always started by the kiosk using these ports:

1. Outgoing TCP/UDP Port 5938 for Teamviewer
2. Outgoing TCP/UDP Port 5959 to 5970 for Remoteit
3. Outgoing TCP/UDP Port 443 towards Sharebox server (IP 185.67.45.109)

TeamViewer:

Outbound connection: TCP/UDP Port 5938


Destination IP addresses: *.teamviewer.com

Additional information can be found here:

<https://community.teamviewer.com/t5/Knowledge-Base/Which-ports-are-used-by-TeamViewer/ta-p/4139#toc-hId-792961694>

RemotelT:

Outbound connection: ports 443 TCP and 80 TCP, UDP from port 5959 to 5970 Destination IP addresses: *.remot3.it, *.rt3.io

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AC Voltage and plug variations for the U.S. and UK

Europe and the United Kingdom use different plugs to those in the United States, and the color of the wiring is different.

Another distinct difference is the voltage: In the U.S., it's between 110 and 120 volts, but in Europe, it's 220 volts.


Most of Europe, including the UK, conforms to the International Electrochemical Commission (IEC) code.

Throughout Europe the colors for the plug wiring are consistent.

Rewiring a European plug for the U.S. market.

Three wires need to be connected:

- Green and yellow striped for ground
- Blue for neutral
- Brown, meaning hot.

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Return of unused materials

When the kiosk is installed on its original concrete base, there are no materials to be returned.

