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Assembly Guide of LOC-Series Display Enclosure

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1. General information: LOC-Series Display Enclosure

The LOC-Series display enclosure is equipped with a sturdy metal casing and has both a ventilation and a heating system. In outdoor use, it provides protection against humidity, wetness and heat as well as vandalism and theft. The devices comply with the IP54/IP65 protection standard and can be used in a temperature range from -20 ° to 40 ° C.
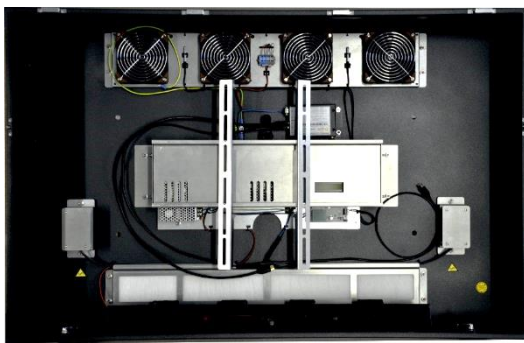
2. Scope of delivery

1)	Housing (metal enclosure)	1 pc
2)	Keys (coded – please record and store number)	2 sets
3)	Beam to be attached to VESA fitting	2 pcs
4)	Cable gland/ strain relief (25 mm) to feed- through ethernet cable	1 pc
5)	Cable gland / strain relief (16 mm) to feed-through main connection (230 V/16A)	1 pc
6)	Screws for fixing the beam to the monitor	
7)	Paper template for drilling	
8)	Standard mounting kit for wall assembly	

3. Preparations for installation and comissioning

For the assembly you need the following tools:

1) Hammer drill
2) Spirit level and pencil
3) Dowels and screws to match wall structure
4) Small slotted screwdriver or phase tester
5) 10 mm jaw spanner for mounting/dismantling the monitor holder
6) 8 mm jaw spanner to fix door braces
7) Water pipe plier for screwing the cable glands
8) 4 mm Allen key wrench for mounting the supporting arms on the monitor
9) Open-end spanner (17 mm) to tighten the nuts (M10) on the hanger bolts

Please make sure that the desired installation location provides a 230 V power supply and internet access option.

When mounting, please make sure that the respective wall has a sufficient load capacity for the weight of the housing and display (for weight see data sheet). When choosing the location, we recommend selecting positions with as much shade as possible or without intense sun exposure. This increases the readability of the monitor in bright light conditions.

IMPORTANT! Prior to installation, please make sure that the power supply in the wall is disconnected/turned off!

Mounting should be carried out by two persons.

Wall mounting of the metal housing

Starting with model series 2018, the housing is mounted directly and without wall bracket, using the hanger bolts in the accessory package. Please check if the wall structure is suitable for this type of mounting (other mounting systems are not included).

1) Use the supplied drilling template/wall plate to mark the drill holes on the mounting wall, use a spirit level to position the plate. For the drilling template, please make sure to select the correct model size!

2) Then drill the necessary holes in the wall using a hammer drill with a suitable drill. Make sure that the holes are at least 10 cm away from the outer edge of the wall and are inserted perpendicularly into the wall.

3) Insert dowels and hanger bolts with nuts in the wall, according to the following section drawing. A standard mounting kit with the required mounting material is included in the package.

For wall mounting of the housing, please use M10 hanger bolts with corresponding dowels and a metric thread length LM of 50 mm. Depending on the type of wall, the total length I and LH must be selected.

Furthermore, you need 2 body washers per bolt, e.g. M10, DIN 440R (ISO 7094), Da = 34 mm, Di = 11 mm, T = 3 mm, as well as 2 nuts (M10). For each hanger bolt, rotate one M10 nut onto the thread. Then insert a body washer on the hanger bolt.

Make sure that the enclosure's distance from the wall is not less than 30 mm (red arrows on the section drawing). Set a distance of ≥ 30 mm with the nut.

Lift the housing onto the hanger bolts, secure it against falling down and open the door. Place a washer on each hanger bolt and tighten the housing with the nuts from inside.
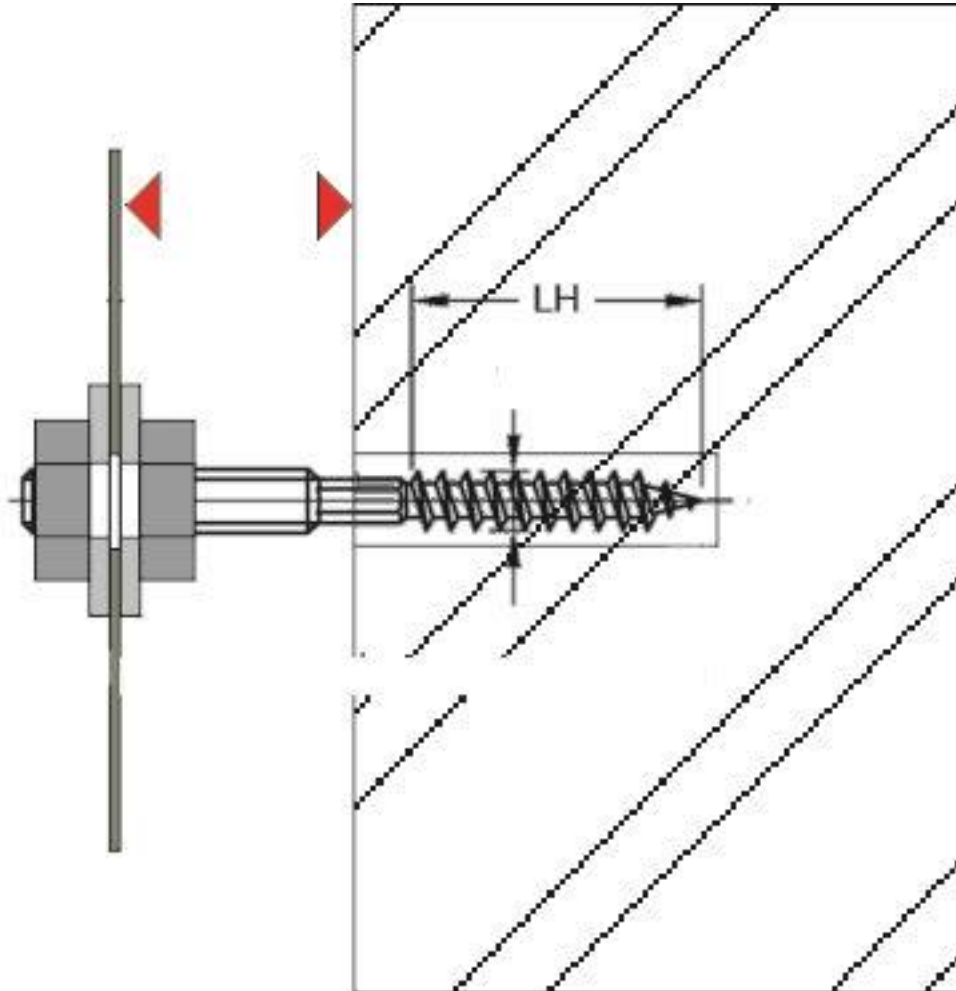
Lay down the housing with its back on a clean and padded surface. Unlock the door with the keys.


Closing direction of the lock:

Right side of door: Close in clockwise and open in counter clockwise direction.

Left side of door: Open in counter clockwise and close in clockwise direction.

When closing and opening the locks, gently press the door against the housing. This will compress the gasket and facilitate the closing process.

Open the door. **ATTENTION!** Please guide the door with your hand and hold firmly so it does not move. Fold out the door struts (located on the narrow sides of the door on the inside) and insert the holding loop - as shown in the picture - into the holder.
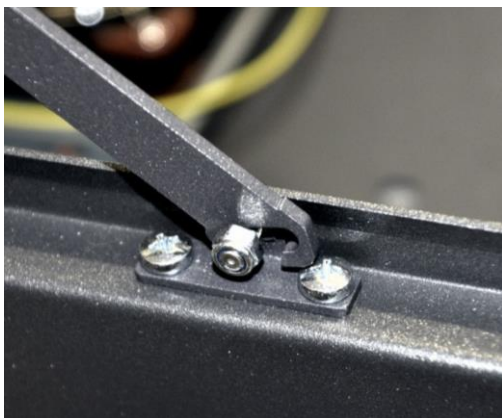
**Securing the door against accidental slamming or impact while lying flat:**

After opening, secure the door with the provided door struts. For this purpose – as illustrated – position and hook the lifting eye of the door strut on the bolt between the nut and the housing edge and tighten the nut to prevent the door strut from slipping out. Please pay close attention to this procedure, otherwise there is a high risk of crushing or injury by the door slamming shut.

Installing the cable glands before mounting the housing

Screw the base body with the lock nut as shown. Remove the standard gasket. Pass the LAN cable through. Place the slotted gasket around the LAN cable and insert it into the base body. Provide sufficient cable length to the PC. Screw and tighten the union nut.
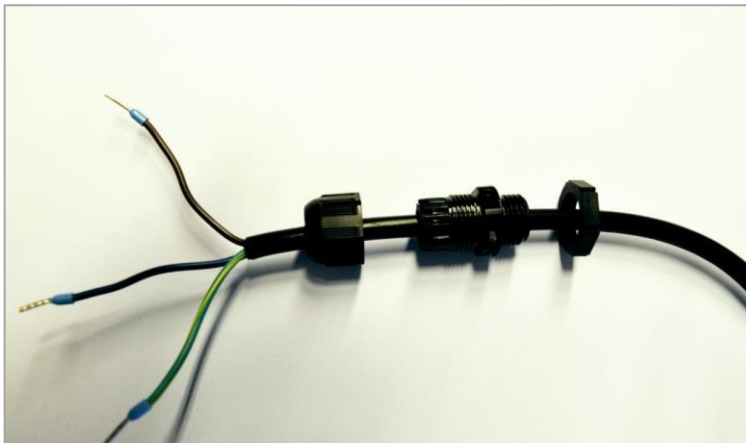
Screw the base body with the lock nut as shown. Pass the power cable through. Ensure sufficient cable length to the connection terminals. Screw and tighten the union nut.
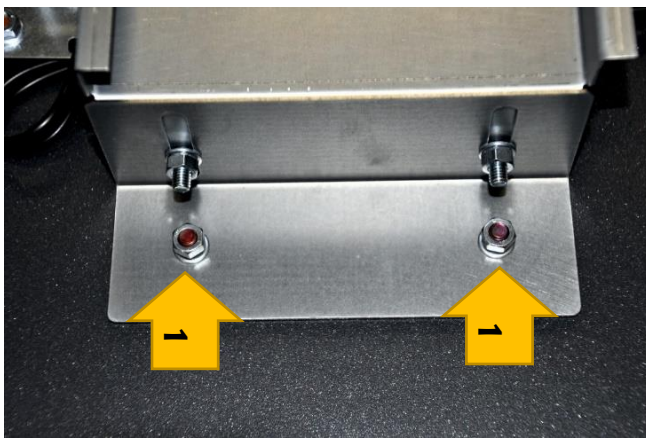
Connecting the cables

Setting up the power supply system

In order to connect the housing to the main supply, there is a power distribution terminal strip with 3 terminals (L: Grey, N: Blue, PE: Green/yellow) located inside of the device. Please note that the connection may only be set up by a trained professional or an electrician.

When connecting, make sure that there is no voltage on the power supply line.

To get to the terminals, the monitor holder must be removed.

Prior to connecting the primary circuit, please loosen the indicated screws and remove the monitor holder. After the power cable has been plugged in, screw the monitor holder tightly (torque max. 5 Nm), two nuts per side.

Afterwards, you can continue clamping the power supply.
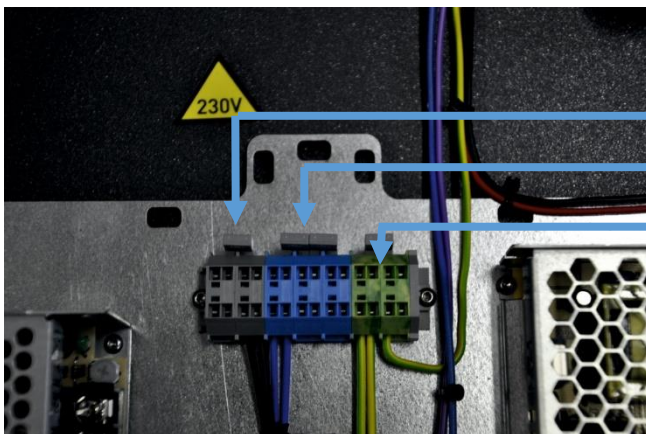
Connection terminals on primary side from left to right:

Black = L

Blue = N

Yellow = PE

After power is connected, the monitor mount must be reinstalled.
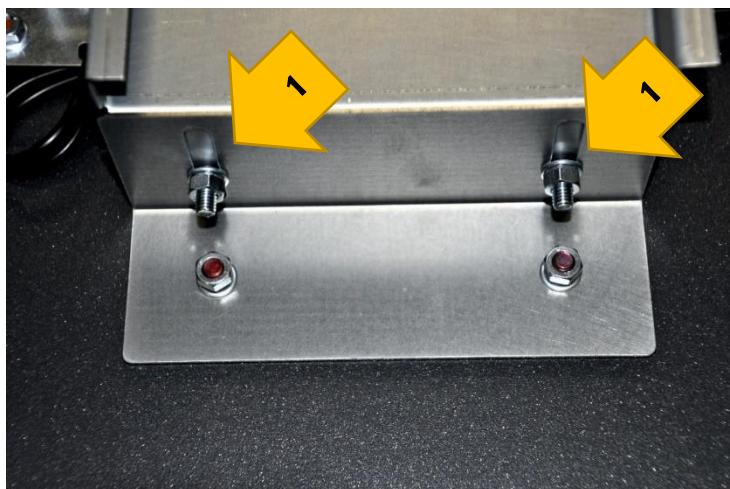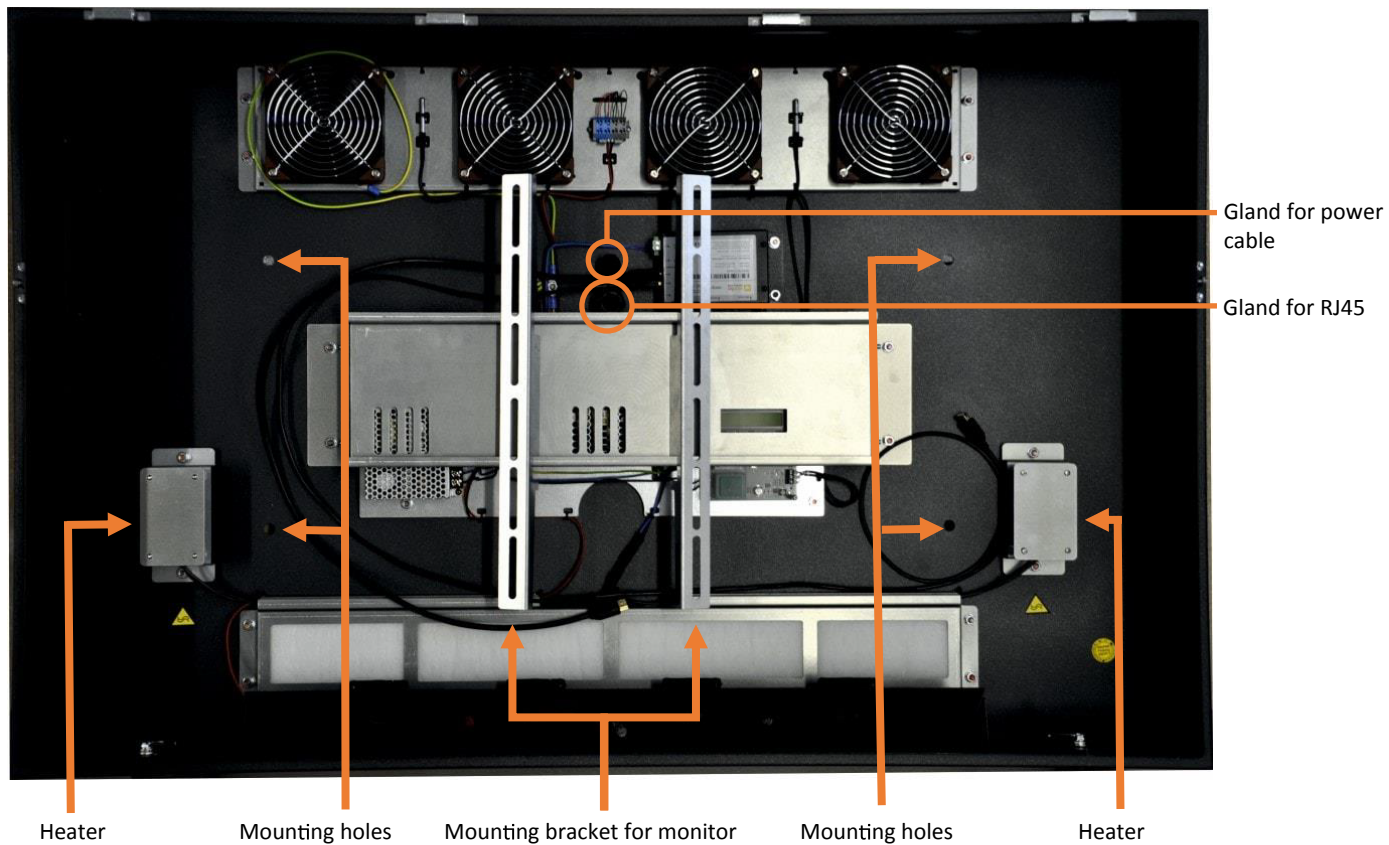
4. Mounting the monitor

Please follow the instructions below to prevent damage to the monitor during installation:

First, please look for a clean and flat surface. When unpacking, make sure not to scratch the surface of the screen and avoid pressure load on the surface. Therefore, it is important that you thoroughly scan the storage area for objects such as screws or dirt.

1) Take the monitor out of the cardboard box while keeping it up and always vertical.

2) Take the monitor arms and screw them back to the monitor with the supplied screws. Align the arms centre to the horizontal axis of the monitor. Make sure that the distance between the monitor edge and the mounting arm is the same at the top and bottom (averaged). Observe the mounting direction of the mounting arms. They must be mounted in such a way that the narrow-slit points upward. Otherwise the monitor cannot be hung.

3) Connect the required cables to the monitor.

    a. HDMI-cable
    b. Power cable

4) Now, with the cables connected, insert the monitor into the housing. A corresponding device for this purpose is attached on the inside of the housing.

The picture shows the inside of the housing with the monitor holder (media player provided by customer, not included!)

Gland for power cable

Gland for RJ45

| Heater | Mounting holes | Mounting bracket for monitor | Mounting holes | Heater |

Tilt adjustment /distance setting:

The tilt of the monitor can be adjusted by loosening the nuts. The distance between the monitor front and the inner side of the glass is also adjusted. The prescribed distance is 14 - 18 mm (torque max. 5 nm), two nuts per side.

4.1 Assembly for freestanding outdoor enclosure 32"-55" LOC-Series

The LOF-Series (stand) is an optional freestanding floor mount to the LOC-Series. Following the assembly steps for the freestanding outdoor enclosure 32"-55" LOC-Series:

Take the two columns (blue) and screw them together with the backplate (red).

The cables can be inserted in both columns.

Take the freestanding unit and mount it perpenticular in both axis onto the fundament.

(Anchors and screws are not scope of delivery)

Please refer to the installation guide of the enclosure how to mount the screwed cable glands.
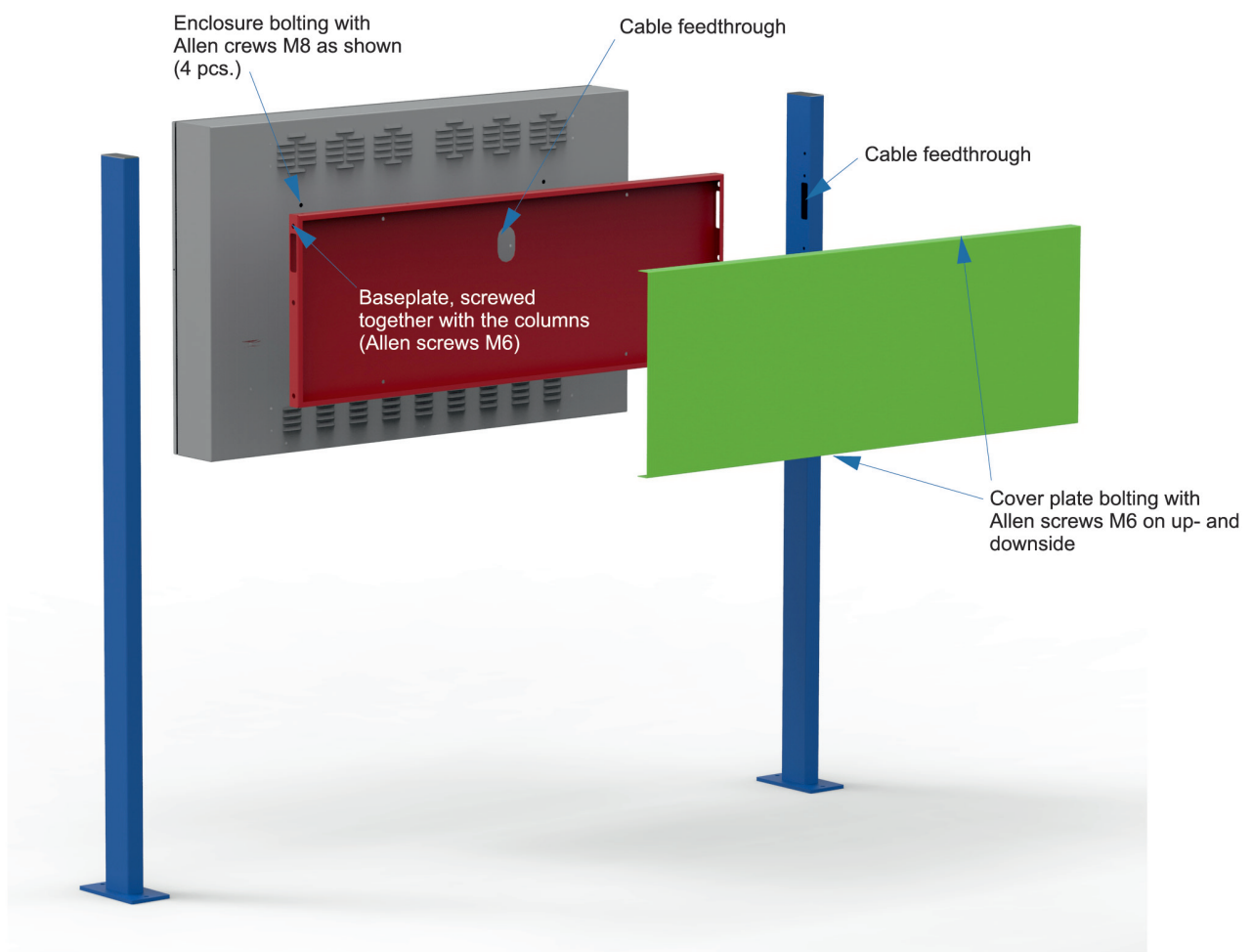
Take the enclosure and screw it on the freestanding unit by using the delivered screws (Allen M8).

Handle the enclosure like it is documented in the installation manual of the enclosure.

Put the cable through the glands.

Take the cover plate (green) and screw it on the backplate (red). Screws (Allen M6) are delivered in screwpack.

Start the installation of the power cable, Monitor etc. as refered in the installation manual of the enclosure.

Enclosure bolting with Allen crews M8 as shown (4 pcs.)

Cable feedthrough

Cable feedthrough

Baseplate, screwed together with the columns (Allen screws M6)

Cover plate bolting with Allen screws M6 on up- and downside

5. Maintenance

5.1 General information on cleaning and maintenance

Clean the glass at regular intervals to ensure a clear view of the display. To do this, use a soft cloth, lukewarm water and mild soap or glass cleaner. Wipe the glass with a dry soft cloth to avoid lime stains. Do not clean the pane in case of excessive heating, which could lead to stress cracks. Do not use sharp or hard objects, they can damage the pane.

Do not use high-pressure cleaning devices or a highly bundled water jet during cleaning operations.

Do not use abrasive cleaners or cleaning utensils.

5.2 Changing the filters

Check the filter mat at regular intervals regarding the degree of contamination. If the filter mat is dirty, it must be replaced. This should only be done by qualified personnel.

5.3 Miscellaneous

Make a visual inspection of the housing and the display at regular intervals. Due to vandalism or extreme environmental influences (e.g. very high dust volume, high salinity of the air) the housing can be damaged or affected.
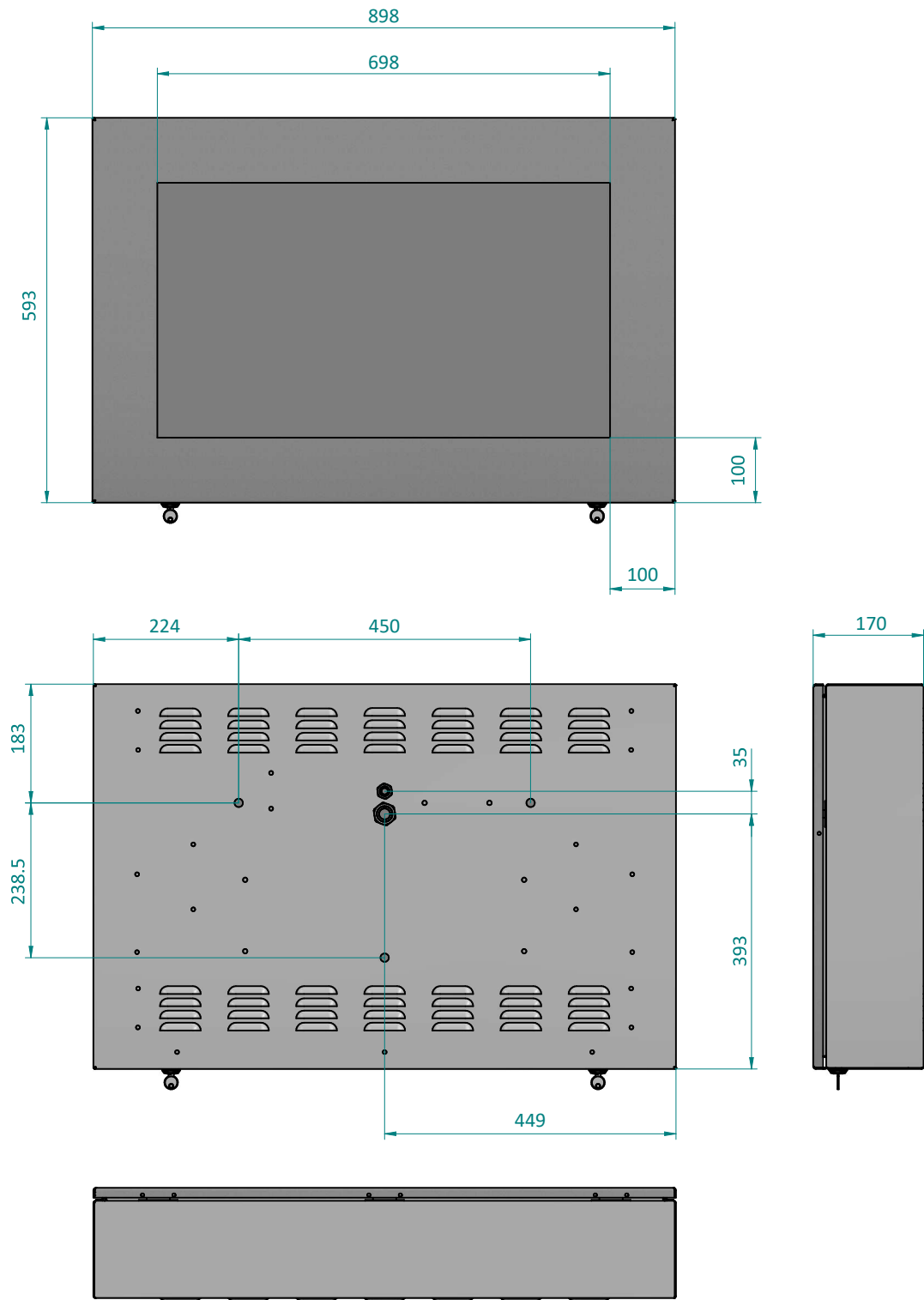
6. Technical data

| Product description	LOC-32	LOC-43	LOC-55
Screen diagonal	81 cm (32")	109 cm (43")	140 cm (55")
Dimensions (WxHxD) enclosure / housing	89,8 x 59,3 x 17,0 cm	114,1 x 72,9 x 20,0 cm	141,0 x 88,1 x 20,0 cm
Color	DB 703 (anthracite)	DB 703 (anthracite)	DB 703 (anthracite)
Coating housing	fine structure	fine structure	fine structure
Operating temperature	-20 °C ~ +40 °C	-20 °C ~ +40 °C	-20 °C ~ +40 °C
Protection class	IP65 (Front) / IP54 (Backside)	IP65 (Front) / IP54 (Backside)	IP65 (Front) / IP54 (Backside)
Typ. energy consumption housing	Ø 60 - 70 Watt	Ø 65 – 75 Watt	Ø 70 – 80 Watt
Energy consumption housing (min/max, all components on)) without monitor/PC	Min. / Max: 25 / 275 Watt	Min / Max: 25 / 290 Watt	Min / Max: 30 / 305 Watt
Weight housing	30,5 Kg	41,5 Kg	62 Kg
Enclosure operating time	18/7	18/7	18/7
Power supply	230 V	230 V	230 V

7. Technical drawings

lllustrated models with wall mount. Models without a wall bracket are identical when assembled. When installed in a wall niche, make sure that there is a clearance of at least 50 mm above, left and right around the housing. At the bottom, the space should be 100 mm, so that the keys can be inserted in order to lock the enclosure. The informations given represent minimum dimensions, ensuring sufficient air circulation around the housing.

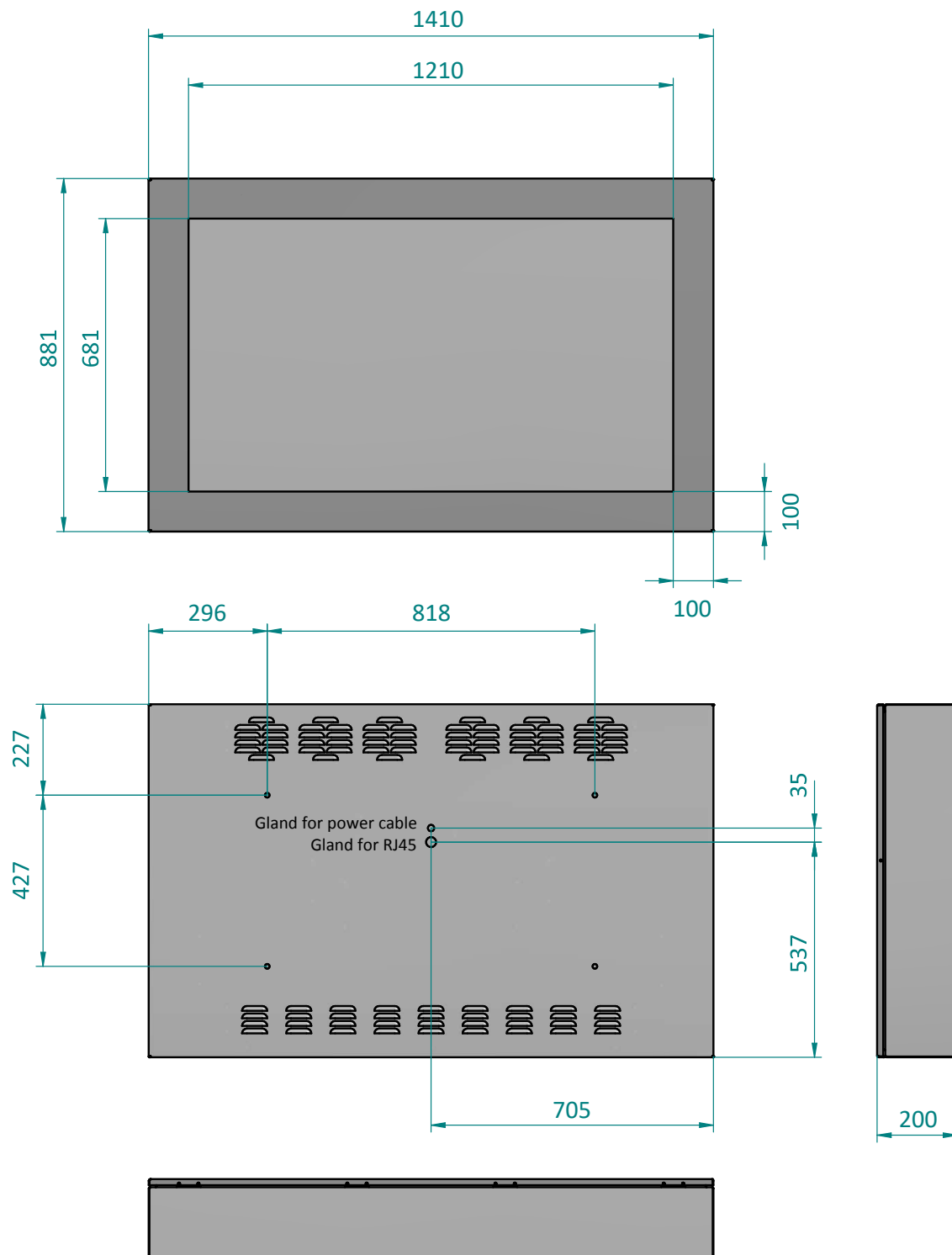All housings comply with CE standard. EMC type test was carried out for the housings.

Technical drawing: 32" display enclosure

Technical drawing: 43" display enclosure

1141

941

729

529

100

100

210.5

720

200

223

35

283

461

570.5
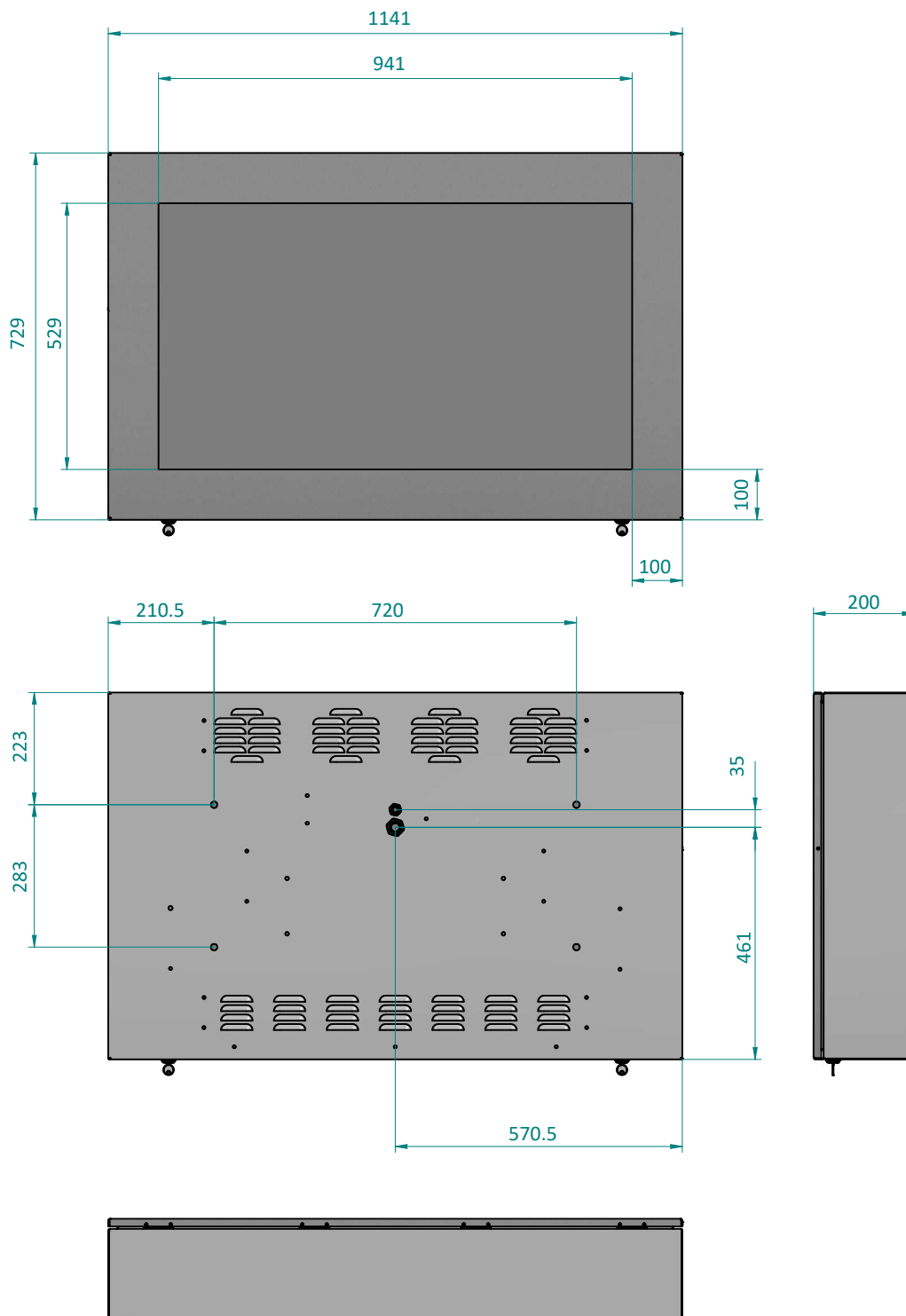
Technical drawing: 55" display enclosure

Gland for power cable
Gland for RJ45

Technical drawing: LOF-Series Stand

Fundament (x*y): 400 x 500mm,
Depth 700mm, cable tube
centered in both axis

Outer dimension

1600

Fundament 400 x 500mm

190

1480

Dimension between center lines

Ø14mm

1530

1210

681

1902

1430