
Vantage PML

Panel Installation Sheet

Cutting the door, mounting the screen, powering it and handing it over.

Client	For the panel builder and the installing engineer
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This sheet covers the mechanical and electrical installation of the Vantage PML wall panel. Setting the panel up and connecting it to the controller is covered separately in the *Vantage PML User Guide*.

Screen supplied: VOR-10.1-M-A, 10.1 inch capacitive touch, flush mount for a control panel door.

1. At a glance

ITEM	FIGURE
Door cut out	275 mm wide by 175 mm high
Screen overall, front face	294 mm wide by 195 mm high
Overall depth	48.5 mm
Fixing	4 clips, supplied with the screen
Supply	24 V DC
Supply rating	2.5 A minimum
Network	2 off RJ45. Use LAN1 (Ethernet 1) only
Working temperature	0 C to 45 C
Display	1280 by 800, 16:10, 300 cd/m2

2. Cut the door

Accuracy matters at this step, so measure twice before cutting.

1. Mark the aperture 275 mm wide by 175 mm high.
2. Check the position: the front face is 294 mm by 195 mm, so the bezel covers about 9 mm of door all the way round the hole. Keep that 9 mm clear of door folds, stiffeners, hinges and the lock return.
3. Cut, then deburr both faces. A clean back face lets the clips pull the bezel down flat, for a neat finish with no gap at the front.
4. Touch in any bare steel before the screen goes near it.

Two recommendations from our own installation practice. Relieve the four corners to about a 3 mm radius rather than cutting them sharp, as a rounded corner protects a painted steel door from cracking over years of use. And allow at least 75 mm clear depth behind the door for the 48.5 mm body plus the cable tails and their bend radius, more if the door carries a folded return at that height.

Check the aperture against the actual screen before the door is painted. If a replacement or alternative screen is ever needed, check it against this same 275 mm by 175 mm aperture before ordering, as cut outs vary between screens of the same nominal size.

3. Fit the screen

The screen fits from the front and clamps from the back.

1. Take the screen out of its box with the protective film still on the glass.
2. Offer it into the aperture from the front, squarely, and hold it there. This is a two person job: one to hold the screen, one to fit the clips.
3. Fit the 4 supplied clips to the back of the screen and tighten them evenly against the inside face of the door, working diagonally like a wheel.
4. Tighten enough to pull the bezel flat and no more.

Use only the screws supplied with the screen. They are sized for the fixing points, which keeps the electronics behind them safe and the warranty intact.

Leave the protective film on the glass until handover, so the glass stays protected through the rest of the panel build. For transport, see section 8.

4. Surface mounting, if the panel has no door aperture

The screen also takes a standard VESA bracket on the 4 threaded holes in its back, using the same supplied screws.

Mounted this way the front of the glass sits about 50 mm off the fixing surface, so allow for it in a walkway or beside a door swing.

5. Power

The screen runs on 24 V DC and needs at least 2.5 A. It comes with a 24 V DC, 2.5 A mains adaptor.

1. Take the supply from a fused circuit on the panel supply, not from a load side circuit that gets isolated for maintenance.
2. Route the DC lead away from any drive, contactor coil or switched mode supply. Keep it out of the same trunking run as the mains and the outputs.
3. Support the lead near the screen so its weight is never on the connector.
4. Keep the screen on its own supply rather than switching it with the plant. It is a display and is designed to stay on.

Where the panel already has a 24 V DC supply, feeding the screen from it gives a neater installation, and the adaptor can stay in the box. Confirm the connector and polarity against the screen before connecting it.

There is no power switch to manage. The screen starts on its own when the supply is made, and comes back by itself after a power cut.

6. Network

The screen has 2 off RJ45 sockets, marked LAN1 and LAN2. Use LAN1 (Ethernet 1) only. LAN2 (Ethernet 2) is not used, and it does not work as a network switch, so it cannot pass the network on to another device. Wi-Fi is fitted as standard.

Run a cable to LAN1 on the screen from the same network as the Kieback and Peter controller and dress it so the door can swing fully without loading the connector. Leave a service loop at the hinge.

The panel needs a fixed address, either a static IP set on the panel or a DHCP reservation made for it. The controller recognises each panel by the address it connects from, so a fixed address keeps the panel recognised and the display live. Record the panel's address in the panel schedule and beside the controller's connection rule, so both are easy to find on future service visits.

7. Environment

CONDITION	RANGE
Working temperature	0 C to 45 C
Ambient temperature	-10 C to +60 C
Ambient humidity	40 to 65 per cent
Storage temperature	-20 C to 60 C
Storage humidity	35 to 80 per cent

The front of the screen is sealed against the door, and the back sits within the panel's own internal conditions. In a plant room panel that runs warm, work to the working figure of 45 C rather than the ambient figure of 60 C, and put the screen on the coolest part of the door, which is usually low and away from any drive.

8. If the panel is being shipped

Take the screen out and pack it in its own box inside the panel, then refit it on site. This keeps the glass safe from door flex in transit.

9. Two steps to get right before handover

These are for the installing engineer rather than the panel builder, and both take only a moment.

Keep the screen free of accounts. Please do not sign in to a Google account, or any other account, on the screen. The panel is locked to its own display before handover, and Android only allows this on a device with no accounts on it. If an account has been added, the panel needs a factory reset before it can be locked.

Set the panel's network address before locking it. Android settings, where the address is set, are hidden while the panel is locked, so setting it first saves time on site. If a change is needed later, seven taps and the PIN unlock the panel in moments.

10. Handover checklist

CHECK	DONE
Aperture cut, deburred, bare steel touched in	
Screen square in the aperture, bezel flat, 4 clips even	
Supplied screws only	
Supply made, screen starts on its own	
Screen not switched with the plant	
Network cable in LAN1 and dressed, service loop at the hinge, door swings fully	
Fixed address set and written into the panel schedule	
No accounts signed in on the screen	
Controller address entered and plant list drawing	
Panel locked to its display	
Controller switched off and back on, panel reconnects unaided	
Protective film removed	

The last three are covered step by step in the *Vantage PML User Guide*. Remove the protective film once everything above it is ticked.