

Waterproof membrane switches

Engineering review and quotation note | Revision 2026-10-15

Custom membrane keypads for equipment exposed to rain, dust or cleaning. Review the overlay, adhesive border, tail exit and housing seal as one mounted assembly.

Send your panel drawing, housing details and expected exposure. If your equipment needs an IP65, IP67 or IP68 target, agree the assembly and test conditions before sample approval.



Membrane control panel with a water-splash visual. This image is not an IP test record.

Use this note with the current panel drawing and the intended housing. It is not a fixed performance specification or a test report.

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Define the sealing target

Options are reviewed for the project. Confirm materials, dimensions, exposure and the mounted test requirements before sampling.

Item	Options / Description
Product Type	Waterproof membrane switch, wet-service HMI panel, industrial sealed keypad
Overlay Material	PET, PC, PMMA, or customized
Target IP Rating	IP65, IP67, IP68 or a buyer-defined target; confirm the enclosure, assembly method and test requirements before sample approval.
Key Type	Tactile, non-tactile, metal dome, embossed key
Surface Finish	Matte, Glossy, Textured, Anti-Glare, Anti-Fingerprint
Sealing / Adhesive	Rubber gasket, 3M adhesive, industrial adhesive
Tail / Connector	Protected tail exit, strain relief, stiffener and connector orientation reviewed with the housing
Backlighting	LED, LGF, EL, Dead-front options
Applications	Industrial, Medical, Automotive, Outdoor, Instrumentation
Certification Support	ISO 9001 and IATF 16949 company certificates; see the scope in each document. Agree any required material-compliance evidence before sampling.

Certificates apply to the scope stated in each document. IATF 16949 covers thin-film panel manufacturing and excludes product design; it does not establish an IP rating for your panel or finished device.

Review the mounted water path

Decision point	What to confirm before sample approval
Front adhesive landing	Keep enough sealed border around keys, windows and display cutouts so liquid cannot reach spacer openings.
Housing flatness	Check coating texture, ribs, screw bosses and gaps that can reduce adhesive contact or gasket compression.
Tail exit	Define tail direction, bend radius, reinforcement and clearance so the exit does not become the lowest water path.
Connector protection	Review whether the connector sits inside a dry pocket, sealed area or strain-relieved cable route.
Cleaning and outdoor exposure	State whether the panel sees rain, washdown, alcohol wipes, sunscreen, oil mist, UV, heat or freeze-thaw cycles.

Approve the sample in your housing

Use the drawing and artwork revision to identify the sample being reviewed. Confirm the sealing construction and the installed condition before any exposure test.

- Check the adhesive contact area, panel edge and gasket contact on the actual housing.
- Review tail routing and connector protection with the equipment assembled.
- Agree exposure conditions and acceptance criteria for any water, cleaning or environmental checks.
- Ask which inspection or test records can be supplied for this construction and agree their scope before sampling.

Record any changes needed before approving repeat production. A company quality-system certificate does not replace approval of the mounted sample.

Prepare a waterproof keypad quotation

Start your waterproof keypad quotation with the panel drawing or photos, housing details, water or cleaning exposure and quantities. State the target IP rating if one is specified; agree on the mounted-sample test requirements before approval.

- 2D drawing, artwork, housing drawing or sample photos
- Target IP rating or expected water / dust exposure
- Cleaning method, chemical exposure or outdoor condition
- Overlay material, surface finish and color requirements
- Key type, backlight requirement, connector and tail direction
- Housing material, surface texture, gasket location and front adhesive landing width
- Planned sample checks such as water spray, wipe-down, mounted leakage review or outdoor pilot use
- Quantity, sample schedule and target mass production timing

Agree inspection and test records

Agree which checks are included, the conditions, acceptance criteria and available records before sampling. The list of test options on the product page is not a promise that every test is included in every order.

Contact Baoshengda

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