ABB MV570 1TNA928300R0001

01 MV570 application and access backup

1 Capture the project and operating environment

Back up the HMI application and record Android/software versions, network identity and operator permissions. Capture important alarm and event settings before replacing the panel. Confirm the full MV570 1TNA928300R0001 identity instead of relying on screen appearance.

2 Keep software identity with the hardware record

Retain the application, Android/software version and operator permissions together. A backup of screen appearance alone does not preserve the network identity, access rules or alarm behavior needed for the replacement panel.

Record	Complete marking and installed position
Comparison	Field labels agree with application assignments
Display technology	TFT with LED backlight
Display resolution	800 × 600 pixels

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02 24 V supply and cabinet environment

1 Check the panel supply and isolation

Check the approved 24 V DC connection and typical 8 W demand. Isolate power before removing the panel or handling internal components. Confirm the operating environment remains within 0 to +55°C and 5–90% noncondensing humidity.

2 Compare operating conditions with the panel limits

Assess the 0 to +55°C operating range and 5–90% noncondensing humidity at the actual panel location. The typical 8 W demand is a power reference, not permission to use an unverified supply arrangement.

Supply evidence	Measured at the device connection
Work condition	Power isolated while wiring is handled
Touch technology	Capacitive
Processor	i.MX6 dual-core, 800 MHz

03 Front seal and peripheral connections

1 Restore the gasket and panel mounting

Restore the panel gasket and mounting clamps so the front seal seats evenly. Reconnect the single Ethernet port and any intended USB peripherals. Preserve cable strain relief, and do not use sharp tools to operate or test the capacitive touchscreen.

2 Inspect the front sealing boundary independently

Check that the gasket seats evenly and the mounting clamps hold the panel correctly. The front IP65 protection depends on the installed sealing arrangement and does not describe every surface or external connection.

Wiring record	Connection-by-connection comparison
Physical inspection	Shield, connector and strain relief checked
Memory	1 GB DDR3 SDRAM
Flash storage	4 GB eMMC

04 Project restoration and retained clock

1 Restore network settings and permissions

Load the compatible application and restore the network settings and access permissions. Check the system clock after any extended outage: RTC backup is approximately six hours at 25°C. Verify that the project starts normally without assuming a different Android version is interchangeable.

2 Check time after an extended power interruption

Compare the system clock with the plant reference before accepting event records. RTC backup is approximately six hours at 25°C; retained project settings do not establish that the displayed time remains correct after a longer outage.

Configuration	Approved settings restored
Diagnostic condition	Normal recognition before functional testing
Ethernet	1 × 10/100/1000 Mbit/s, PoE
USB	2 × USB 2.0 Host Type A

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05 Touch, live data and alarm acceptance

1 Exercise representative operating screens

Exercise representative screens and permitted operator commands in a controlled process state. Compare live network values, test alarms and verify event time stamps. Confirm touchscreen response across the active area and retain the project and configuration backup with the service record.

2 Verify command permissions as well as display response

Check that permitted operator commands and restricted functions behave as intended with the restored accounts. Confirm live values, alarms and event time stamps separately from touchscreen response across the active area.

Technical basis: ABB MV570 User Manual, 1TNC928212M2002, Rev. B.

Related product navigation

ABB CI857K01 3BSE018144R1

ABB CI854BK01 3BSE069449R1

These are related references, not confirmed substitutes or an automatically approved assembly.