ABB MV570 1TNA928300R0001

01 Function and selected configuration

Product function

ABB MV570 1TNA928300R0001 provides a local operator interface for viewing and controlling the configured switchgear application through its touchscreen and network connection.

Selected configuration

The panel combines an 800 MHz dual-core processor, 1 GB DDR3 memory and 4 GB eMMC storage with an Android-based application environment. The operating-system and software version must be matched to the installed project rather than assumed from the hardware number alone.

Functional path

Switchgear network	HMI application	Touch display	Operator command

Display	800 × 600 capacitive touchscreen
Platform	Dual-core processor, 1 GB DDR3
Interfaces	Gigabit Ethernet and two USB Host ports

One Ethernet port supports 10/100/1000 Mbit/s networking, and two USB Host Type A ports support the intended peripherals or service operations. Network identity, application data and operator permissions belong to the configured installation and must be retained during replacement.

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02 Technical operating envelope

Display technology	TFT with LED backlight
Display resolution	800 × 600 pixels
Touch technology	Capacitive
Processor	i.MX6 dual-core, 800 MHz
Memory	1 GB DDR3 SDRAM
Flash storage	4 GB eMMC
Ethernet	1 × 10/100/1000 Mbit/s, PoE

USB	2 × USB 2.0 Host Type A
Supply	24 V DC
Power consumption	8 W typical at 24 V DC
RTC backup	Approximately 6 hours at 25°C
Operating temperature	0 to +55°C
Front protection	IP65 when correctly installed
Humidity	5–90%, noncondensing

Display, memory and interface ratings describe the MV570 hardware. Application behavior and OS compatibility depend on the installed software and project.

Signal interpretation

Typical consumption is 8 W at 24 V DC. Verify the actual power connection and network arrangement of the installed panel.

Interface boundary

IP65 applies from the front when installed correctly. The panel requires a noncondensing environment and operation within 0 to +55°C.

How many wired network ports are fitted to MV570 1TNA928300R0001?

There is one 10/100/1000 Mbit/s Ethernet port with PoE capability.

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03 System integration and applications

Local visualization

Display the configured switchgear status and measurements.

Operator interaction

Use the capacitive touchscreen for the permitted application commands.

Networked supervision

Exchange project data over the installed Ethernet connection.

Maintenance access

Use the intended USB and software service functions under controlled access.

System and supply context

The HMI operates within its compatible ABB switchgear application and network; the hardware alone does not contain every site-specific project.

Application boundary

Use it for configured local visualization, operator interaction and system diagnostics after restoring the approved application.

What memory resources are available in MV570 1TNA928300R0001?

The panel has 1 GB DDR3 SDRAM and 4 GB eMMC storage.

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04 Engineering selection decisions

Which display resolution does MV570 1TNA928300R0001 use?

The display resolution is 800 × 600 pixels with TFT/LED backlighting and capacitive touch.

Does MV570 1TNA928300R0001 use a fixed Android version across all production units?

The Android version can vary with production and supplied configuration; match it to the installed application before replacement.

How long can the clock in MV570 1TNA928300R0001 retain time without power?

The supercapacitor provides approximately six hours of RTC backup at 25°C; verify the clock after a longer outage.

What should be tested after restoring the project on MV570 1TNA928300R0001?

Verify display quality, touchscreen response, network data, alarms, time stamps and operator command permissions using the actual project.

Panel sealing	Fit the gasket and retain the correct clamp arrangement.
Touch surface	Do not use screwdrivers or sharp tools on the screen.

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05 Configuration boundary and references

Lifecycle and support

The current production and factory-support status of MV570 1TNA928300R0001 is unconfirmed.

Replacement assessment

Back up the application and retain communication settings, operator permissions and panel mounting arrangement.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; it does not replace manufacturer instructions.

Technical basis

ABB MV570 User Manual, 1TNC928212M2002, Rev. B.

Related product navigation

- ABB CI854AK01 3BSE030220R1
- ABB CI860-CI860K01 3BSE032444R1

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

Product enquiries