

TPC1062K

10.2-inch Embedded All-in-One HMI Touch Panel

MCGS TPC1062K is a 10.2-inch embedded all-in-one HMI with an 800 x 480 TFT display, resistive touch input, 400 MHz ARM processor, MCGS runtime and serial, USB and Ethernet interfaces.

PRODUCT SNAPSHOT

BRAND
MCGS

FAMILY
MCGS TPC K Series

PART
TPC1062K

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

TPC1062K provides local process visualization, touch operation and configured controller communications in a panel-mounted MCGS installation.



10.2-inch 800 x 480 TFT display



4-wire resistive touch interface



400 MHz embedded ARM platform



RS-232, RS-485, USB and Ethernet connectivity

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
TPC1062K operator interface	Matched automation controller
Documented field communications	Approved HMI project and runtime

ENGINEERING CONTEXT

The HMI must remain matched to the MCGS project, runtime version, controller protocol and every connected serial, Ethernet and USB interface. Commissioning restores communications, screen navigation, alarms, data entry and project retention before release.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Product type	Embedded all-in-one HMI	Flash storage	128 MB
Series	mcgsTpc K Series	Serial interfaces	1 x RS-232 and 1 x RS-485
Display	10.2-inch TFT LCD with LED backlight	USB interfaces	2 total: 1 host and 1 device
Display resolution	800 x 480	Ethernet	1 x LAN on TPC1062K
Display colors	65,535 colors	Power supply	24 Vdc
Touch panel	4-wire resistive	Runtime software	MCGS embedded configuration software runtime
Touch resolution	1024 x 1024	Enclosure	Industrial plastic structure
Processor	Embedded low-power ARM, 400 MHz	Mounting	Embedded panel installation
Memory	64 MB SDRAM	Front protection	IP65

RELATED PRODUCT PAGES

1 Allen-Bradley 2711P-K10C4D8

2 Allen-Bradley 2711P-K12C4A8

3 Siemens 6AV6643-0CD01-1AX1

4 Siemens 6AV6647-0AG11-3AX0

5 B&R 5AP1130.185C-000

6 Allen-Bradley 2711-T10C8

7 Allen-Bradley 2711P-B10C4A9

8 Allen-Bradley 2711P-B15C22D9P

9 Allen-Bradley 2711P-B7C4D1-A

TECHNICAL NOTE

Distinguish TPC1062K from TPC1062KS: the K execution includes the documented LAN interface. Back up the MCGS project and runtime data before work, then preserve power polarity, protective earth, serial mode, Ethernet addressing and controller protocol settings.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Machine operator interface

Displays status and accepts documented operator commands.

PLC visualization

Exchanges configured process data through the approved protocol.

Alarm and trend display

Presents runtime alarms, states and historical views.

Legacy HMI replacement

Restores the exact TPC1062K project and communication setup.

PRODUCT PRECAUTIONS

1

Confirm TPC1062K, not TPC1062KS, on the physical nameplate.

2

Place the machine and connected controller in the approved maintenance state.

3

Back up the MCGS project, recipe, alarm and runtime data before removal.

4

Record 24 Vdc polarity, protective earth, serial mode, USB use and Ethernet addressing.

5

Isolate power and protect the resistive touch surface and communication connectors.

6

Restore the exact project, controller protocol, station addresses and communication parameters.

7

Review boot, screen navigation, communication and alarm status after energization.

8

Test representative tags, commands, alarms, data entry and retained settings before release.

ENGINEER FAQ

Q1 How is the exact TPC1062K execution identified?

Match TPC1062K exactly; the related TPC1062KS omits the LAN interface documented for the K execution.

Q2 What documented function does TPC1062K perform?

It runs an MCGS embedded HMI project for visualization, touch operation and controller communications.

Q3 Which installed system must be matched before fitting TPC1062K?

Match the panel position, 24 Vdc supply, MCGS project, runtime, PLC protocol and network or serial topology.

Q4 Which interfaces must be recorded for TPC1062K?

Record power, earth, RS-232, RS-485, USB, Ethernet addressing and controller station settings.

Q5 What handling controls apply to TPC1062K?

Back up all project and runtime data, isolate power and protect the display and connectors.

Q6 What must be restored after installing TPC1062K?

Restore the exact HMI project, communication drivers, addresses, recipes, alarms and retained data.

Q7 What evidence confirms TPC1062K is ready for service?

Retain boot, screen, tag, command, alarm, communication and data-retention test results.

Q8 Which manufacturer record supports the TPC1062K page?

The manufacturer-issued 2010 mcgsTpc selection manual documents TPC1062K/KS product features and technical values.

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9 Allen-Bradley 2711P-B7C4D1-A

SOURCE mcgsTpc Embedded HMI Selection Manual - TPC1062K/KS | Beijing Kunlun Tongtai Automation Software Co., Ltd., 2010 manufacturer selection manual

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