

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.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	MCGS
System family	MCGS TPC K Series
Part number	TPC1062K
Document status	Controlled product and system reference

DOCUMENT SCOPE

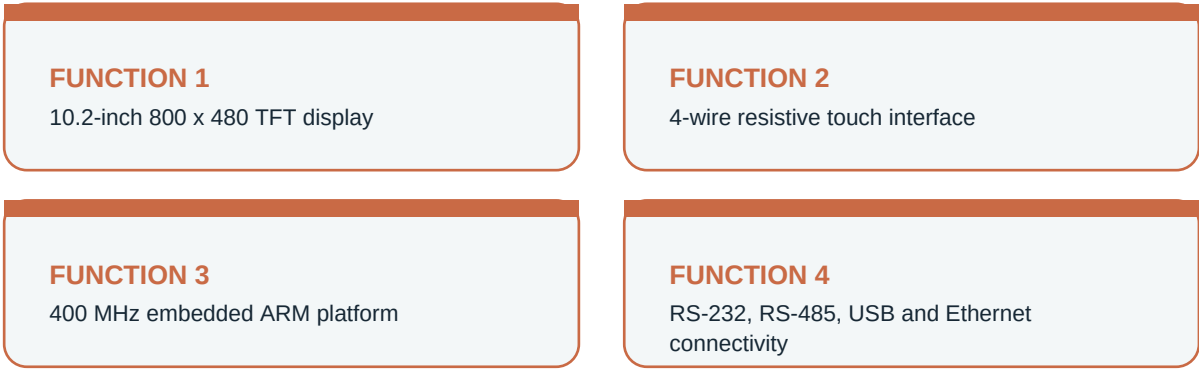
Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

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.



MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	MCGS TPC K Series
02	Matched extension cable and ClickLoc connector loop
03	3300 XL Proximitior Sensor host channel
04	AISI 4140 steel target or approved equivalent

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	MCGS TPC K Series
Interface role	10.2-inch Embedded All-in-One HMI Touch Panel
Field / power context	The HMI must remain matched to the MCGS project, runtime version, controller protocol and every
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 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.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product type	Embedded all-in-one HMI	Flash storage	128 MB
Series	mcsTpc 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 2711-T10C8	2 Allen-Bradley 2711P-B10C4A9	3 Allen-Bradley 2711P-B15C22D9P
4 Allen-Bradley 2711P-B7C4D1-A	5 Allen-Bradley 2711P-K10C4D8	6 Allen-Bradley 2711P-K12C4A8
7 Siemens 6AV6643-0CD01-1AX1	8 Siemens 6AV6647-0AG11-3AX0	9 B&R 5AP1130.185C-000

ENGINEERING BOUNDARY

Confirm TPC1062K, MCGS project and runtime, 24 Vdc supply, protective earth, RS-232/RS-485 wiring, USB use, Ethernet addressing, PLC protocol and controlled operator-interface test evidence before commissioning.

PRE-INSTALLATION CHECKS

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.

Applications and Engineering Context

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.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	TPC1062K recorded
Host / carrier	MCGS TPC K Series
Physical interface	Power, field and communication interfaces matched to the as-found record
Configuration	Approved hardware and software configuration restored
Functional proof	Diagnostics and controlled operator-interface response recorded

IMPORTANT NOTICE

Confirm TPC1062K, MCGS project and runtime, 24 Vdc supply, protective earth, RS-232/RS-485 wiring, USB use, Ethernet addressing, PLC protocol and controlled operator-interface test evidence before commissioning.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Allen-Bradley 2711-T10C8

View Allen-Bradley 2711-T10C8 page

2

Allen-Bradley 2711P-B10C4A9

View Allen-Bradley 2711P-B10C4A9 page

3

Allen-Bradley 2711P-B15C22D9P

View Allen-Bradley 2711P-B15C22D9P page

4

Allen-Bradley 2711P-B7C4D1-A

View Allen-Bradley 2711P-B7C4D1-A page

5

Allen-Bradley 2711P-K10C4D8

View Allen-Bradley 2711P-K10C4D8 page

6

Allen-Bradley 2711P-K12C4A8

View Allen-Bradley 2711P-K12C4A8 page

7

Siemens 6AV6643-0CD01-1AX1

View Siemens 6AV6643-0CD01-1AX1 page

8

Siemens 6AV6647-0AG11-3AX0

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9

B&R 5AP1130.185C-000

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MANUFACTURER SOURCE RECORD

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

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.