

INDUSTRIAL HMI & TEACH PENDANT

PENDANT

Motion. Logic. Safety. HMI. — One Platform.
THE FACE OF YOUR MACHINE.



Every Control Block deserves an interface worthy of it. The Pendant is that interface — a 10.1" capacitive touchscreen that delivers complete machine and robot control from a single, purpose-built surface.

MOTION

Built-in robot control for up to 10 axes — 6 primary + 4 auxiliary. Manual jog & teach. Live position feedback. Step-and-record program editing.

LOGIC

AutoCode runs natively. Programming, recipe management, and live diagnostics from one screen. AutoBlocks Studio extends it to your laptop — secure remote support over DHCP, one button.

SAFETY

Hardwired safety, built in. Dual-redundant NC E-stop. Start, Stop, and Reset safety buttons. Keyed teach-mode switch enforces operator vs. manager access. Wired to the Control Block via DB15.

HMI

10.1" multi-touch + LED status light. Backlit "A" logo signals machine state at a glance: ● Red fault · ● Yellow warn/teach · ● Green run · ● Blue init.

Purpose-built for the Control Block.

The Pendant is not a generic HMI bolted onto a controller — it is a direct extension of the Control Block, powered, wired, and protocol-matched through a single DB15 cable. AutoCode runs natively, recipes load instantly, and the safety circuit ties straight into the Control Block's PLe / Cat 4 / SIL3 system. AutoBlocks Studio extends the same experience to any laptop or PC kiosk.

10 AXES
ROBOT CONTROL
6 primary + 4 auxiliary

DUAL NC
SAFETY
E-stop · Start · Stop · Reset

ONE BUTTON
REMOTE SUPPORT
AutoBlocks Studio over DHCP

4-COLOR LED
STATUS LIGHT
R · Y · G · B machine state

Specifications / Connectivity / Devices

PENDANT
REV 11 · 2026

HARDWARE

Dimensions	13" W × 10" L × 1.5" H
Weight	~1 lb
Housing	Reinforced nylon, black finish
Faceplate	Industrial-grade, rugged
Ingress Protection	IP54 — dust-protected, splash-resistant
Operating Temp	-20 °C to 50 °C (-4 °F to 122 °F)
Storage Temp	-40 °C to 70 °C
Humidity	5–95% non-condensing
Shock & Vibration	IEC 60068-2-6 & IEC 60068-2-27
Power	Powered from the Control Block via DB15

DISPLAY & INTERFACE

Screen size	10.1"
Resolution	1280 × 800
Type	Capacitive multi-touch
LED status light	Built-in, backlit "A" logo — 4-color state indicator
LED states	Red fault · Yellow warn/teach · Green run · Blue init
User interface	Configurable jog & teach interfaces
Robot control	Built-in — up to 10 axes (6 primary + 4 auxiliary)

MOUNTING

VESA pattern	75 mm × 75 mm
Configurations	Wall · arm · pedestal · machine-mount
Cable run	Single DB15 — power, data, safety

EXTERNAL PORTS

- ▶ (1) DB15 — single-cable connection to Control Block (power + data + safety)
- ▶ (1) USB 2.0 — file management, recipe transfer

COMMUNICATION & SOFTWARE

- ▶ **AutoCode** — 27-command human-auditable language, runs natively on the Pendant
- ▶ **Autoblocks Studio** — offline programming, diagnostics, and one-button secure remote support
- ▶ **Web HMI** — same interface in any browser via the Control Block network

AUTOBLOCKS
STUDIO
MOTION. LOGIC. SAFETY. HMI.

MAJOR FEATURE

Kiosk Mode + one-button secure remote support. Studio auto-discovers the controller over DHCP from any laptop on the Pendant or Control Block network. Press a single button on the Pendant to grant a permission-based secure remote session — no VPN, no static IPs, no IT ticket.

Kiosk Mode runs Studio on any PC and turns any 1080P monitor + keyboard + mouse into a full machine interface — the same AutoCode experience as the Pendant, on hardware you already own. Plus offline programming and full diagnostics.

SUPPORTED DEVICES — PLUG & CONFIGURE

COMPATIBLE CONTROLLERS

Autoblocks Control Block · Control Block Mini

SAFETY BUTTONS (ONBOARD)

Dual-redundant NC E-stop · Start · Stop · Reset · Keyed Teach-mode switch

STUDIO KIOSK MODE

Any Windows PC · any 1080P monitor · standard keyboard & mouse



SCAN FOR LIVE PRODUCT PAGE
autoblocks.co/product/smart-teach-pendant