HORNER
AUTOMATION GROUP

Academic Program
Automation Starter Kits

Programmable Controller
HMI • I/O • Networking
All-in-One

High Performance - Low Cost Solution for distant learning needs and unlimited lab time for your students

EDUCATION TOOL

Use the Powerful Horner OCS "All-In-One" Controller to help eliminate lab-time bottlenecks and time limitations. The use of the OCS with our Academic Program makes it easy and cost-effective for each student to have their own lab equipment and be able to meet their requirements for your automation educational program. They will have access to develop programmable ladder logic control, graphical Human Machine Interface, I/O connectivity (discrete and analog), and networking (Serial, CAN, and Ethernet) with our easy-to-use OCS products. All with our **FREE** CsCAPE software. Our Micro OCS Series Controllers offer a cost low enough to justify making this a part of each student's Book Program, so they all own one and have it readily available as their time requires. Tech schools have commented that the students have learned more with this tool, as they have more time to spend in a lab environment. The students can keep the controllers when they are done with school or sell them to the next group of students just like they do with books.

MICRO OCS SERIES

To learn more about the Horner Micro OCS Series Controllers, **CLICK HERE**

PART NUMBER	DESCRIPTION
HE-X2R-AKIT	X2R, programming cables, power supply, Cscape w symbols, I/O Simulator
HE-X4R-AKIT	X4R, programming cables, power supply, Cscape w symbols, I/O Simulator
HE-X7R-AKIT	X7R, programming cables, power supply, Cscape w symbols, I/O Simulator
HE-X10R-AKIT	X10R, programming cables, power supply, Cscape w symbols, I/O Simulator
HE-WMV01O01	WebMI* - Unlimited users, 100 data point 20 pages, 1 license
HEMC1	Removable microSD Memory Card
HEMR1	Memory Card Reader for the HEMC1

X2 Series

X4 Series

X7 Series

X10 Series

HEMC1

HEMR1

HE-TK001 I/O Simulator

webOCS WebMI
HE-WMV01001

ASK ME ABOUT OUR UNIVERSAL I/O SIMULATOR ACCESSORY!

HORNER AUTOMATION GROUP

Class I, Division 2
Groups A, B, C, D
Type 4X

MADE IN USA | CE | cULus

X2 Starter

CONTROLLER

CPU	32 Bit Arm
Logic Scan Rate	1.2 mS/K
Built-In Storage	16MB
Removable Memory	32GB microSD*
Retentive Storage	32K Battery-Backed Ram
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC

PHYSICAL SPECIFICATIONS

Dimensions	mm: 119.18 h x 89.76 w x 35.8 d in: 4.69 h x 3.53 w x 1.41 d
Weight	270g / 9.5oz

MODEL-DEPENDENT OPTIONS

X2	HE-X2R-AKIT

https://hornerautomation.com/product/x2/

X4 Starter

CONTROLLER

CPU	32 Bit Arm with Integrated Graphics
Logic Scan Rate	0.4 mS/K
Built-In Storage	16MB
Removable Memory	32GB microSD*
Retentive Storage	32K Battery-Backed Ram
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC

PHYSICAL SPECIFICATIONS

Dimensions	mm: 89.76 h x 119.18 w x 35.8 d in: 3.53 h x 4.69 w x 1.41 d
Weight	280g / 10oz

MODEL-DEPENDENT OPTIONS

X4	HE-X4R-AKIT

https://hornerautomation.com/product/x4/

X7 Starter

CONTROLLER

CPU	32 Bit Arm with Integrated Graphics
Logic Scan Rate	0.4 mS/K
Built-In Storage	16MB
Removable Memory	32GB microSD*
Retentive Storage	128K Battery-Backed Ram
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC

PHYSICAL SPECIFICATIONS

Dimensions	mm: 143.50 h x 186.08 w x 46.60 d in: 5.65 h x 7.33 w x 1.34 d
Weight	590g / 20.8oz

MODEL-DEPENDENT OPTIONS

X7	HE-X7R-AKIT

https://hornerautomation.com/product/x7/

X10 Starter

CONTROLLER

CPU	32 Bit Arm with Integrated Graphics
Logic Scan Rate	0.4 mS/K
Built-In Storage	16MB
Removable Memory	32GB microSD*
Retentive Storage	128K Battery-Backed Ram
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC

PHYSICAL SPECIFICATIONS

Dimensions	mm: 264.99 h x 167.82 w x 52.07 d in: 10.43 h x 6.61 w x 2.05 d
Weight	590g / 20.8oz

MODEL-DEPENDENT OPTIONS

X10	HE-X10R-AKIT

https://hornerautomation.com/product/x10/

*Micro SD card not included for any model

INPUTS/OUTPUTS MODEL OVERVIEW

	MODEL R
DC In	12
DC Out	2
Relays	6
HS In	4
HS Out	2
Analog In	mA x 4 or RTD* x 2
Analog Out	mA x 2

*A 3rd and 4th RTD channel is available if Analog Outputs are not used;
*RTD are not available for the X2 model

There are four high-speed inputs of the total DC Inputs.
There are two high-speed outputs of the total DC outputs.

STARTER KIT CONTENTS

Horner Travel Case with One Micro OCS Relay Model: X2, X4, X7 or X10
6W 24VDC Wall Mount Power Supply
I/O Simulator
Latest Version of Cscape
USB to Mini USB Cable
USB to RS-232 Serial (HE-USB600: USB to RS-232 Adaptor)
RS-232 to RJ45 Ethernet (HE500CBL300: Programming Cable for OCS)

TO ORDER or for more details and specs, see our website:
https://hornerautomation.com/product/academic-program/