



MICRO SERIES



**ALL-IN-ONE CONTROL
AT AN EXCEPTIONAL VALUE!**



UL 50E Type 1,
4x, 12, 12K and 13
(indoor use)



All-in-one Controller with 26-30 Built-in I/O points and a 4" color touchscreen.
I/O expansion using OCS-I/O bases or Low-cost Relay Module

FEATURES

Controller	Logic Memory (Ladder/IEC)
	Logic Scan Rate
	Variables (Word-type/Bit-type)
	Floating-Point Support
	AutoTune PID Loops
Operator Interface	Display Resolution
	Display Technology
	Number of Pages
	Fields or Objects per Page
I/O	Built-In I/O points, Total
	Built-in High Speed I/O
	Built-in Analog I/O
	Built-in Analog Type (In/Out)
	Total I/O Memory (DI/DO/AI/AO)
	Local Low-cost Relay I/O Expansion
	Local OCS-I/O Expansion
Ethernet & Internet	Network OCS-I/O Expansion (maximum)
	Industrial Ethernet Protocols
	Other Ethernet Protocols
	Remote Access
USB & Serial Ports	USB Programming Port
	RS-232 Ports & RS-485 Ports
	RTU/Modbus (Master/Slave) & ASCII
CAN Networking	Standard Protocols
	I/O Expansion, Peer-to-Peer Messaging
	Optional Protocols
Physical Specifications	Typical Mounting Location
	Height (inches/mm)
	Width (inches/mm)
	Overall Depth (inches/mm)
Operating Specifications & Standards	Supply V (W), Input V
	Operating Temperature
	Relative Humidity (non-condensing)
	Environmental Rating

X4 - A, R

512 kB
0.4 mS/K
5000/2048
Yes (32-bit)
(8 loops)
480 x 272 (touch)
Backlit LCD (350 nits)
250
100
30 (A) & 26 (R)
4 In (500 kHz) & 2 Out
4 In & 2 Out
4-20mA, RTD*/4-20mA
2048/2048/512/512
8-120 relays
via CsCAN base
16 bases x 8 modules
USB mini-B
1 each on shared RJ45
Yes
CsCAN
Yes
CANopen, SAEJ1939
Encl. Door or Swing Panel
3.79" / 96 mm
4.92" / 125 mm
1.22" / 31 mm
24VDC (4.6W), 12/24VDC
-10° to 60°C
5 to 95%
UL 50E Type 1, 4x (indoor use only), 12, 12k, 13

*RTD PT-100 range -50°C to +200°C



MICRO SERIES



All-in-one Controller with 26-30 Built-in I/O points and a 7" color touchscreen.
I/O expansion using OCS-I/O bases or Low-cost Relay Module

FEATURES

Controller	Logic Memory (Ladder/IEC)
	Logic Scan Rate
	Variables (Word-type/Bit-type)
	Floating-Point Support
	AutoTune PID Loops
Operator Interface	Display Resolution
	Display Technology
	Number of Pages
	Fields or Objects per Page
I/O	Built-In I/O points, Total
	Built-in High Speed I/O
	Built-in Analog I/O
	Built-in Analog Type (In/Out)
	Total I/O Memory (DI/DO/AI/AO)
	Local Low-cost Relay I/O Expansion
	Local OCS-I/O Expansion
Ethernet & Internet	Network OCS-I/O Expansion (maximum)
	Industrial Ethernet Protocols
	Other Ethernet Protocols
	Remote Access
USB & Serial Ports	USB Programming Port
	RS-232 Ports & RS-485 Ports
	RTU/Modbus (Master/Slave) & ASCII
CAN Networking	Standard Protocols
	I/O Expansion, Peer-to-Peer Messaging
	Optional Protocols
Physical Specifications	Typical Mounting Location
	Height (inches/mm)
	Width (inches/mm)
	Overall Depth (inches/mm)
Operating Specifications & Standards	Supply V (W), Input V
	Operating Temperature
	Relative Humidity (non-condensing)
	Environmental Rating

X7 - A, R

512 kB
0.4 mS/K
5000/2048
Yes (32-bit)
(8 loops)
800 x 480 (touch)
Backlit LCD (300 nits)
250
100
30 (A) & 26 (R)
4 In (500 kHz) & 2 Out
4 In & 2 Out
4-20mA, RTD* / 4-20mA
2048/2048/512/512
8-120 relays
via CsCAN base
16 bases x 8 modules
EtherNet/IP (Server), Modbus TCP (Client/Server)
BACnet IP (server), FTP (server), SMTP (client)
OCS360 Cloud Service, WebMI via HTML5, EnvisionRV
USB mini-B
1 each on shared RJ45
Yes
CsCAN
Yes
CANopen, SAEJ1939
Encl. Door or Swing Panel
5.65" / 143.5 mm
7.33" / 186.1 mm
2.08" / 52.9 mm
24VDC (4.6W), 12/24VDC
-10° to 60°C
5 to 95%
UL 50E Type 1, 4x (indoor use only), 12, 12k, 13



All-in-one Controller with 26-30 Built-in I/O points and a 10" color touchscreen.
I/O expansion using OCS-I/O bases or Low-cost Relay Module

FEATURES

Controller	Logic Memory (Ladder/IEC)
	Logic Scan Rate
	Variables (Word-type/Bit-type)
	Floating-Point Support
	AutoTune PID Loops
Operator Interface	Display Resolution
	Display Technology
	Number of Pages
	Fields or Objects per Page
I/O	Built-In I/O points, Total
	Built-in High Speed I/O
	Built-in Analog I/O
	Built-in Analog Type (In/Out)
	Total I/O Memory (DI/DO/AI/AO)
	Local Low-cost Relay I/O Expansion
	Local OCS-I/O Expansion
Ethernet & Internet	Network OCS-I/O Expansion (maximum)
	Industrial Ethernet Protocols
	Other Ethernet Protocols
	Remote Access
USB & Serial Ports	USB Programming Port
	RS-232 Ports & RS-485 Ports
	RTU/Modbus (Master/Slave) & ASCII
CAN Networking	Standard Protocols
	I/O Expansion, Peer-to-Peer Messaging
	Optional Protocols
Physical Specifications	Typical Mounting Location
	Height (inches/mm)
	Width (inches/mm)
	Overall Depth (inches/mm)
Operating Specifications & Standards	Supply V (W), Input V
	Operating Temperature
	Relative Humidity (non-condensing)
	Environmental Rating

X10 - A, R

512 kB
0.4 mS/K
5000/2048
Yes (32-bit)
(8 loops)
1024 x 600 (touch)
Backlit LCD (300 nits)
250
100
30 (A) & 26 (R)
4 In (500 kHz) & 2 Out
4 In & 2 Out
4-20mA, RTD* / 4-20mA
2048/2048/512/512
8-120 relays
via CsCAN base
16 bases x 8 modules
USB mini-B
1 each on shared RJ45
Yes
CsCAN
Yes
CANopen, SAEJ1939
Encl. Door or Swing Panel
6.5" / 166.2 mm
10.4" / 263.9 mm
2.2" / 55.8 mm
10-30 VDC (7.4W), 12/24VDC
-10° to 60°C
5 to 95%
UL 50E Type 1, 4x (indoor use only), 12, 12k, 13

POWERFUL CONTROL. ENTRY-LEVEL COST

THE BEST CONTROLLER FOR A SIMPLE MACHINE

Our Micro line of all-in-one controllers offers compact, cost-effective control for small-to-medium applications across industries like OEM Machinery, Water/Wastewater, Agriculture, Building Automation, and more.

The Micro line combines a full logic controller and operator interface in a single unit. Featuring 26-30 built-in I/O points and the capability to mount directly to enclosure doors, dramatically cutting space and overall system costs.

NEWLY ADDED MODULAR CONTROLLERS

Horner has recently added Modular Controller models CPU200 and CPU250. These also include powerful logic engines, I/O support and network connectivity - but without an operator interface. Local I/O is either built-in, snapped on, or both. The built-in I/O consists of 34 I/O points including 8 Flexible inputs - configurable (point-by-point) as digital or analog.

ALL-IN-ONE CSCAPE PROGRAMMING SOFTWARE

A true strength of any Horner Automation control product is Cscape - our all-in-one, FREE programming package. Cscape handles everything: ladder/IEC-61131 logic, screen design, I/O, and network setup. Build, load, and manage your entire application using a single software tool and unified set of variables.

INDUSTRY LEADING CONNECTIVITY

Our Micro line includes robust standard communication features like Ethernet/IP, Modbus TCP, USB programming, and serial ports for VFDs, servos, and scanners. We also offer optional BACnet IP/MSTP, CANopen, and J1939.

EASY I/O EXPANSION

Simple machines often use relays for their load capacity and flexibility. Our Micro Relay expansion modules are an easy, low-cost way to add up to 120 relays.

For more comprehensive I/O requirements, all Micro line products support OCS-I/O with up to 16 bases per network of 7 modules each.



Micro I/O Relay Module
(8 pt)



OCS-I/O Base & Modules

BUILT-IN I/O DETAILS

Model	DC In	DC Out	Rly Out	HS I/O	Analog In			Analog Out	
					mA	mA/ RTD	V	mA	V
X4A	12	12		4/2		4		2	
X4R	12	2	6	4/2		4		2	
X4R-V20	12	2	6	4/2		2	2	2	
X4R-V42	12	2	6	4/2			4		2
X7A	12	12		4/2		4		2	
X7R	12	2	6	4/2		4		2	
X10A	12	12		4/2		4		2	
X10R	12	2	6	4/2		4		2	
HEI79DQM803	8 channel relay output module with selectable CAN ID; 3 amps per channel; 5 amps per common; 30VDC 240VAC								
HEI79DQM803-A	8 channel relay output module with fixed CAN ID; 3 amps per channel; 5 amps per common; 30VDC 240VAC								

*Flexible inputs 9-16 can each be set to 5/12/24V DC In or mA/V Analog In



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