



HMI CONNECT TOUCH DISPLAYS



SEAMLESS FLEXIBILITY



HMI CONNECT

What makes Modular Controllers innovative? The headline feature is the ability to “unbolt” the HMI Touchscreen from the All-in-one Controller - mounting it remotely and treating it purely as a hardware component requiring absolutely no setup. These HMI Connect displays simply connect to the Modular Controller using a rugged, 4-pin cable (15m, max) with power, video and touch feedback. If multiple screens are desired - connect an HMI Connect splitter between the CPU and the displays. HMI Connect is powered using automotive technology - NOT consumer technology - ensuring long, reliable operation. HMI Connect touchscreens are available in both IP65/NEMA 4X and IP67 models in sizes from 4” to 15”.



One rugged, sealed cable carries power, video and touch feedback between the CPU and the HMI Connect Touchscreen.

HMI CONNECT TOUCH DISPLAYS

IP65 RATED



FEATURES		4"	7"
Operator Interface	Part Number	HE959HMI-04	HE959HMI-07
	Characters/Pixels	480 x 272	800 x 480
	Display Technology	TFT Resistive Touch	TFT Resistive Touch
	Brightness	350 nits	450 nits
	Function Keys	Virtual	Virtual
Connection Type		HMI Connect Display Connector	HMI Connect Display Connector
Physical Specifications	Height (in / mm)	3.79" / 96mm	5.65" / 143.50mm
	Width (in / mm)	4.92" / 125mm	7.33" / 186.08mm
	Depth (in / mm)	1.41" / 35.8mm	2.08" / 52.88mm
	Weight (lbs / kg)	.79 lbs / .36 kg	1.3 lbs / .59 kg
	Vesa Mount Support	75 x 75mm or Panel Mount	100 x 100mm or Panel Mount
Operating Specifications	Operating Temperature	-10°C to 60°C	-10°C to 60°C
	Humidity (non-condensing)	5 to 95%	5 to 95%
	Environmental Rating	IP65	IP65

HMI CONNECT TOUCH DISPLAYS

IP65 RATED



FEATURES		10"	15"
Operator Interface	Part Number	HE959HMI-10	HE959HMI-15
	Characters/Pixels	1024 x 600	1024 x 768
	Display Technology	TFT Resistive Touch	TFT Resistive Touch
	Brightness	250 nits	500 nits
	Function Keys	Virtual	Virtual
	Connection Type	HMI Connect Display Connector	HMI Connect Display Connector
Physical Specifications	Height (in / mm)	6.5" / 166.2mm	12.6" / 320mm
	Width (in / mm)	10.4" / 263.9mm	14.57" / 370.08mm
	Depth (in / mm)	2.2" / 55.8mm	4.08" / 103.6mm
	Weight (lbs / kg)	2.45 lbs / 1.11 kg	6.97 lbs / 3.16 kg
	Vesa Mount Support	100 x 100mm or Panel Mount	100 x 100mm or Panel Mount
Operating Specifications	Operating Temperature	-10°C to 60°C	-10°C to 60°C
	Humidity (non-condensing)	5 to 95%	5 to 95%
	Environmental Rating	IP65	IP65

HMI CONNECT TOUCH DISPLAYS

FEATURES	
Operator Interface	Part Number
	Characters/Pixels
	Display Technology
	Brightness
	Function Keys
Connection Type	
Physical Specifications	Height (in / mm)
	Width (in / mm)
	Depth (in / mm)
	Weight (lbs / kg)
	Vesa Mount Support
Operating Specifications	Operating Temperature
	Humidity (non-condensing)
	Environmental Rating

IP67 RATED



7" ADV
HE959AP-07
800 x 480
IPS LCD with PCAP Touch
1000 nits
Virtual
HMI Connect Display Connector
5.8" / 147.32mm
7.8" / 198.12mm
1.2" / 30.48mm
1.6 lbs / .73 kg
75 x 75mm or 100 x 100mm
-40°C to 80°C
5 to 95%
IP67

HMI CONNECT TOUCH DISPLAYS

IP67 RATED



FEATURES	
Operator Interface	Part Number
	Characters/Pixels
	Display Technology
	Brightness
	Function Keys
	Connection Type
Physical Specifications	Height (in / mm)
	Width (in / mm)
	Depth (in / mm)
	Weight (lbs / kg)
	Vesa Mount Support
Operating Specifications	Operating Temperature
	Humidity (non-condensing)
	Environmental Rating

10" ADV
HE959AP-10
1280 x 800
IPS LCD with PCAP Touch
1000 nits
Virtual
HMI Connect Display Connector
7.5" / 190.5mm
10.5" / 254mm
2" / 50.8mm
2.0 lbs / .91 kg
75 x 75mm or 100 x 100mm
-30°C to 70°C
5 to 95%
IP67

INTUITIVE & TIME-SAVING TECHNOLOGY

MODULAR CONTROLLERS



FEATURES

Controller	Controller Class (processor)
	Logic Memory & Scan Rate
Operator Interface	Graphics Class
	Touchscreen Type
	Max Touchscreens
	No. of Pages/Objects per Page
I/O	Built-in I/O Points, Total
	Built-in Analog I/O
	Local I/O Expansion
	Network OCS-I/O Expansion (max)
Communications	No. of Ethernet Ports
	Standard Ethernet Protocols
	Optional Ethernet Protocols
	Remote Access
	CAN Protocols
	RS-232 & RS-485 Ports
Physical Specs	HeightxWidthxDepth (in/mm)
	Typical Mounting Location
Operating Specs	Supply V (A) & Input V
	Operating Temperature/RH%
	Environmental Rating

CPU260

Prime (single-core)
2MB @ 0.02 ms/K
Standard
HMI Connect (remote mounted)
3 Identical Screens (with accessory)
1023/1023
34 (8DC In, 8 Flex In, 10 DC Out, 8 An Out)
0-8 (4-20mA or 0-10V), 4 Out (4-20mA), 4 Out (0-10V)
7 Modules, max
16 Bases x 8 Modules, max
1 x 10/100 Mbps
Ethernet/IP (server & HMI), Modbus TCP (client/server), FTP (server), SMTP (client)
BACnet IP & MQTT Sparkplug
OCS360 Cloud Service, WebMI via HTML5, EnvisionRV
CsCAN, CANopen, & SAE J1939 (std)
Shared RJ45 with RS-485 (half-duplex) and RS-232. Modbus/RTU (master/slave), ASCII & other protocols
4.5" H x 4.92" W x 1.97" D / 114.4mm H x 124.9mm W x 50mm D
DIN-rail (HMI Connect touchscreen mounted remotely)
10-30VDC Supply, 12/24VDC Inputs
-40°C to 60°C/5 to 95%, non condensing
IP20 (HMI Connect touchscreens carry their own rating)

CPU300

Canvas (dual-core)
2MB @ 0.02 ms/K
Canvas
HMI Connect (remote mounted)
3 Identical Screens (with accessory)
1023/1023
No Built-In I/O
7 Modules, max
16 Bases x 8 Modules, max
2 x 10/100 Mbps
All Protocols on chart are standard
OCS360 Cloud Service, WebMI via HTML5, EnvisionRV
CsCAN, CANopen, & SAE J1939 (std)
Shared RJ45 with RS-485 (half-duplex) and RS-232. Modbus/RTU (master/slave), ASCII & other protocols
4.63" H x 4.52" W x 2.92" D / 117.5mm H x 114.8mm W x 74.3mm D
DIN-rail (HMI Connect touchscreen mounted remotely)
10-30VDC Supply, 12/24VDC Inputs
-10°C to 60°C/5 to 95%, non condensing
IP20 (HMI Connect touchscreens carry their own rating)

MODULAR CONTROLLERS

With the all-new CPU260 & CPU300 in Horner’s CPU series, these advanced products really shine with the unseen flexibility of an All-In-One controller design. It starts with a powerful multi-core CPU with performance on par with Horner’s Prime & Canvas series of controllers and includes a suite of new connectivity including USB Type C, dual ethernet ports with support for a built-in switch and a new display connection for remote displays, that Horner has branded as HMI Connect. This connection provides power and display/touch signals to plug and play displays in a simplified and robust cable connection, fit for traditional panel builds as well as harsher environments such as mobile applications. It can be used with a variety of available screen sizes and resolutions, while still supporting a local 2.2” display (CPU300) that can be used for advanced diagnostics without the need for an HMI if needed.

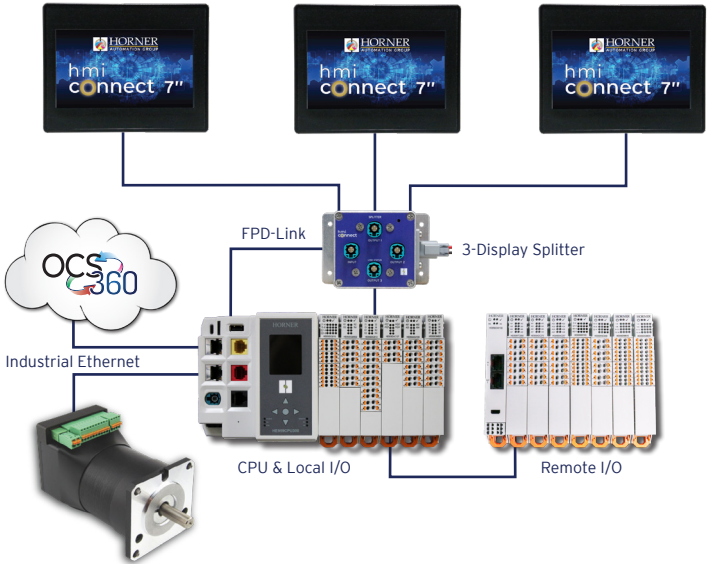
On top of all the connectivity options is the ability to use OCS-I/O modules as local I/O up to 7 modules, plus an additional dedicated OCS-I/O port that can be used in junction with another rack of OCS-I/O modules (1 base + up to 7 modules) that can also be treated as local synchronous I/O. This dedicated port provides 24V power to the remote I/O base to once again provide a very simplified connection to all of your system hardware and reduce the number of terminal connections needed in your panel wiring.

Modular Controllers offer other conveniences as well. They are mounted on DIN-rail and support I/O that is snapped on the side, built-in, or both. That means all of your I/O wiring can be buried in the panel, which for many customers is the preferred approach. And if your I/O needs are distributed, up to 16-bases (8 modules each) can be remotely located. Connectivity is extensive, with all models supporting industrial protocols including Ethernet IP (server & HMI), Modbus TCP (client/server), CANopen (master/slave), RTU/Modbus (master/slave) and more. All models support USB-C for programming. Logic languages supported include traditional Ladder and IEC 6-1131. And all models support Horner’s OCS360 cloud service - with remote connectivity, push data, long-term data storage, dashboard-ing, alarm notifications, and more.



HMI Connect Accessories	
HE959HMI-SPLTR	3 Display Splitter that allows 3 displays to operate from a single display port. Requires 24VDC power
HE959HMI-EXDR (coming soon)	HMI Extender allows the distance to be extended past 8 meters
HE-HMICBL-1M	1 meter cable for HMI connect display
HE-HMICBL-3M	3 meter cable for HMI connect display
HE-HMICBL-8M	8 meter cable for HMI connect display

HMI Connect, CPU300 and OCS-I/O Remote I/O





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