HORNER AUTOMATION GROUP

OCS-I/O

HE959CPU200
Quick Reference Guide

BUILT IN I/O: NONE

1 - General Specifications

1.1 General Specifications

Required Power (Steady State)	630 mA at 24VDC
Required Power (Inrush)	35A for 200µs 24VDC switched
Primary Power Range	10-30VDC
Relative Humidity	5-95% non-condensing
Port Wiring (Analog Inputs and Digital I/O)	12-24 AWG ($2.5\text{-}0.2mm^2$)
Operating Temperature	-40°C (-40°F) to 60°C (140°F)
Storage Temperature	-40°C (-40°F) to 70°C (158°F)
Weight	9.77oz (277.1g)
Dimensions	114.4mm x 124.9mm x 50mm 4.50" x 4.91" x 1.97"
Certifications (UL/CE)	North America: https://hornerautomation.com/certifications/ Europe: https://www.hornerautomation.eu/support/certifications-2/

1.2 Connectivity

Serial Ports	1 x RS-232, 1 x RS-485
CAN Protocols	CsCAN
CAN Port Speeds Support	125kb, 250kb, 500kb, 1Mb/sec.
Ethernet	1 x 10/100Mbps
Communication Support	WebMI, E-mail, TCP/IP, Modbus, FTP, Datalogging
USB Type C Note: Device does not enter run mode when on USB power only	Programming, Power Unit

2 - INSTALLATION

The HE959CPU200 is compact and mounts on a DIN-rail. Each I/O module installed adds width in increments of 19mm.

NOTE: The distance between wiring duct and surrounding modules should be at least 50mm apart.

OCS-I/O modules can be added after the OCS-I/O base has been installed on the DIN-rail and can be hot swapped with power applied. I/O scanning will stop until the correct modules for the system are detected in all slots.

I/O modules are physically added with the following procedure:

1. Connect the bus connectors together to form a backplane that can accept up to 8 modules, including the CPU200 or another base.
2. Snap the bus connectors into the DIN rail. The DIN rail should be 35 mm x 7.5 mm and made to EN 60715 standards.
3. Place the CPU200 to the leftmost connector.
4. Insert modules by latching at the top of the DIN rail first, then rocking each module down until the latch at the bottom of the DIN rail engages.
5. To remove a module, insert a flat-blade screwdriver into the metal DIN rail latch at the bottom of the module. Pry downwards to the release the latch, then rock the module up and off the DIN Rail.

NOTE: Modules may be removed while powered; however, I/O scanning on the remaining modules will stop and I/O will go to the default state until a new module is inserted and all modules in the configuration are present.

3 - SAFETY

a. All applicable codes and standards should be followed in the installation of this product.

b. Shielded, twisted-pair wiring should be used for best performance.

c. Shields should be grounded at one end only, preferably at the end providing the best noise shunting.

4 - WARNINGS

WARNING
If the equipment is used in a manner not specified by Horner APG, the protection provided by the equipment may be impaired.

WARNING - EXPLOSION HAZARD
Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous

AVERTISSEMENT - RISQUE D'EXPLOSION
Ne débranchez pas l'équipement tant que l'alimentation n'a pas été coupée ou que la zone n'est pas dangereuse.

WARNING - EXPLOSION HAZARD
Substitution of any component may impair suitability for Class I, Division 2

AVERTISSEMENT - RISQUE D'EXPLOSION
Le remplacement de tout composant peut nuire à la compatibilité avec la classe I, division 2

WARNING – POSSIBLE EQUIPMENT DAMAGE
Remove power from the I/O Base and any peripheral equipment connected to this local system before adding or replacing this or any module.

AVERTISSEMENT - DOMMAGES POSSIBLES À L'ÉQUIPEMENT
Coupez l'alimentation de la base d'E / S et de tout équipement périphérique connecté à ce système local avant d'ajouter ou de remplacer ce module ou tout autre module.

WARNING
Outputs should be connected to the same voltage levels (all connect to 24V supply sources)

WARNING
Digital Outputs are non-isolated and considered hazardous live.

WARNING
Loads for outputs require a Class 2 or Limited Power Source from a UL Listed power supply.

5 - TECHNICAL SUPPORT

For further details, please refer to the Datasheets on the Horner website.

For assistance, contact Technical Support at the following locations:

North America
+1 (317) 916-4274
www.hornerautomation.com
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