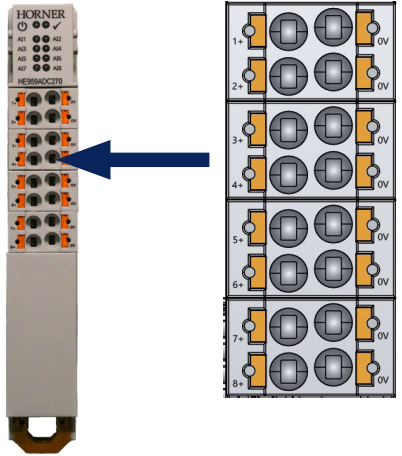
1.1 General Specifications

Required Power (Steady State)	<130mA @ 5V; <26mA @ 24V
Analog Inputs	8
Relative Humidity	5-95% non-condensing
Port Wiring	16-24 AWG / 0.2-1.4mm²
Operating Air Temp	-40°C (-40°F) to 60°C (140°F)
Storage Temp	-40°C (-40°F) to 85°C (185°F)
Weight	3.10 oz.
Dimensions	76.5mm x 124.5mm x 19mm; 3" x 4.9" x 0.75"
Certifications (UL/CE)	North America: https://hornerautomation.com/certifications/ Europe: https://www.hornerautomation.eu/support/certifications-2/

1.2 Analog Inputs

Inputs per Module	8
Input Ranges	0-20mA, 4-20mA, 0-10V
Safe Input Voltage Range	+/- 30 VDC
Nominal Resolution	16 Bit
%AI Full Scale	0-32,000
Input Impedence	Current Input Impedance 100Ω Voltage Input Impedance 110kΩ
Galvanic Isolation	None
Maximum Input Voltage	30 VDC

WIRING

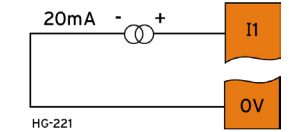


SIGNAL	Label	SIGNAL	LABEL
1+	Input 1+	0V	Common
2+	Input 2+	0V	Common
3+	Input 3+	0V	Common
4+	Input 4+	0V	Common
5+	Input 5+	0V	Common
6+	Input 6+	0V	Common
7+	Input 7+	0V	Common
8+	Input 8+	0V	Common

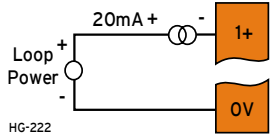
Use 75°C copper conductors only.

Analog Input

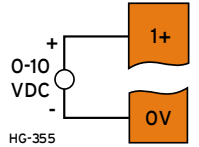
20mA Analog In - Not Self Powered



20mA Analog In - Self Powered



0-10VDC IN



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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.

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.

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
APGUSATechSupport@heapg.com

Europe
+353 (21) 4321-266
www.hornerautomation.eu
technical.support@horner-apg.com

INSTALLATION

The HE959ADC270 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 CNX116 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 OCS-I/O base to the leftmost connector.
4. Inset modules buy latching at the top of the DIN rail first and rocking 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 down to the release the latch, the rock the module up and off the DIN Rail. 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.

HORNER AUTOMATION GROUP

OCS-I/O

Analog Input Module - HE959ADC270

Please visit our website for a complete listing and to learn more about certified Horner Automation products.

MAN1441 _02_EN_HE959ADC270_QRG

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