

**ASCII Basic Module** 

# HE800ASC100 HE-ASC100\* **3 High Speed Communication** Ports



\* HE-denotes plastic case

This datasheet also covers products starting with IC30.

Note: This product has a detailed supplement (SUP0275) available.

#### 1 **SPECIFICATIONS**

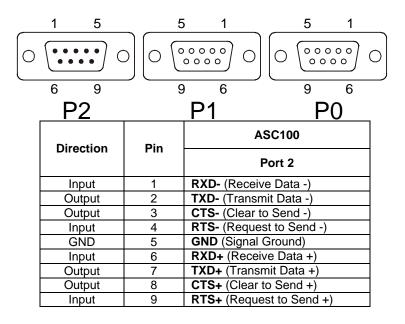
	ASC100			ASC100
Number of communication ports	3 (2 RS232, 1 RS485/422)	_	User Memory for BASIC <i>program</i> storage	32 K bytes
Status LEDs	RXD/TXD for all ports RUN (BASIC program)	-	User Memory for BASIC data storage	32 K bytes

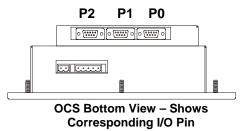
	General Specif	ications	
Required Power	0.22 W (9.35 mA @	Operating	0°–60° Celsius
(Steady State)	24 VDC)	Temperature	
Required Power (Inrush)	0.53 W (22.4 mA @	Terminal Type	9-Pin D-Subs
	24 VDC)		
Relative Humidity	5–95% Non-condensing	Weight	9.5 oz. (270 g)
CE	See Compliance Table at ht	p://www.heapg.com/	Support/compliance.htm
UL			

#### 2 WIRING

**Note:** Port 1 and Port 2 share internal communication circuitry. Only <u>one</u> of the ports can be used to transfer data at a time.

Direction	Pin	ASC100
Direction	F III	Port 0/1
Output	1	DCD (Data Carrier Detect)
Output	2	RXD (Receive Data)
Input	3	TXD (Transmit Data)
Input	4	DTR (Data Terminal Ready)
GND	5	Signal Ground
Output	6	DSR (Data Set Ready)
Input	7	CTS (Clear to Send)
Output	8	RTS (Request to Send)
Output	9	RI (Ring Indicate)
		the signal names reflect the EIA
RS232 signal	names for a	a DCE device. The names do <u>not</u>
necessarily ref	flect the sig	nal direction with respect to the
ASC100 modu	ıle.	





# 3 CONFIGURATION

See the Supplement for the SmartStack ASCII BASIC Module (SUP0275) for configuration, wiring, and other pertinent data.

## 4 INSTALLATION / SAFETY

**Warning:** Remove power from the OCS controller, CAN port, and any peripheral equipment connected to this local system before adding or replacing this or any module.

Use the following wire type or equivalent:

- Belden 8917
- 16 AWG or larger

For detailed installation and a <u>handy checklist</u> that covers panel box layout requirements and minimum clearances, refer to the hardware manual of the controller you are using. (See the <u>Additional References</u> section in this document.).

When found on the product, the following symbols specify:



Warning: Consult user documentation.



Warning: Electrical Shock Hazard.

**WARNING:** To avoid the risk of electric shock or burns, always connect the safety (or earth) ground before making any other connections.

**WARNING:** To reduce the risk of fire, electrical shock, or physical injury it is strongly recommended to fuse the voltage measurement inputs. Be sure to locate fuses as close to the source as possible.

**WARNING:** Replace fuse with the same type and rating to provide protection against risk of fire and shock hazards.

**WARNING:** In the event of repeated failure, do <u>not</u> replace the fuse again as a repeated failure indicates a defective condition that will <u>not</u> clear by replacing the fuse.

**WARNING:** Only qualified electrical personnel familiar with the construction and operation of this equipment and the hazards involved should install, adjust, operate, or service this equipment. Read and understand this manual and other applicable manuals in their entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.

For detailed installation and a <u>handy checklist</u> that covers panel box layout requirements and minimum clearances, refer to the hardware manual of the controller you are using. (See the <u>Additional References</u> section in this document.):

- All applicable codes and standards need to be followed in the installation of this product.
- For I/O wiring (discrete), use the following wire type or equivalent: Belden 9918, 18 AWG or larger.

Adhere to the following safety precautions whenever any type of connection is made to the module.

- Connect the green safety (earth) ground first before making any other connections.
- When connecting to electric circuits or pulse-initiating equipment, open their related breakers. Do <u>not</u> make connections to live power lines.
- Make connections to the module first; then connect to the circuit to be monitored.
- Route power wires in a safe manner in accordance with good practice and local codes.
- Wear proper personal protective equipment including safety glasses and insulated gloves when making connections to power circuits.
- Ensure hands, shoes, and floor are dry before making any connection to a power line.
- Make sure the unit is turned OFF before making connection to terminals. Make sure all circuits are de-energized before making connections.
- Before each use, inspect all cables for breaks or cracks in the insulation. Replace immediately if defective.

#### 5 ADDITIONAL REFERENCES

The following information serves as a *general* listing of Horner controller products and other references of interest and their corresponding manual numbers. Visit our website listed in the <u>Technical Support</u> section to obtain user documentation and updates.

**Note:** This list is <u>not</u> intended for users to determine which products are appropriate for their application; controller products differ in the features that they support. If assistance is required, see the **Technical Support** section in this document.

Controller	Manual Number
XLE Series (e.g., HE-XExxx)	MAN0805
QX Series (e.g., HE-QXxxx)	MAN0798
NX Series (e.g., HE-NXxxx)	MAN0781
LX Series (e.g., LX-xxx; also covers RCS116)	MAN0755
Color Touch OCS (e.g., OCSxxx)	MAN0465
OCS (Operator Control Station) (e.g., OCS1xx / 2xx; Graphic OCS250)	MAN0227
Remote Control Station (e.g., RCS2x0)	
MiniOCS (e.g., HE500OCSxxx, HE500RCSxxx)	MAN0305
Other Useful References	
CAN Networks	MAN0799
Cscape Programming and Reference	MAN0313
Wiring Accessories and Spare Parts Manual	MAN0347
DeviceNet <sup>™</sup> Implementation	SUP0326
Wiring Accessories and Spare Parts Manual	MAN0347

## 6 TECHNICAL SUPPORT

For assistance and manual up-dates, contact Technical Support at the following locations:

#### North America:+

(317) 916-4274

www.heapg.com

(+) 353-21-4321-266

Europe:

www.horner-apg.com

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