



Pneumatic Inking System Safety, Specifications, and Warranty Information

All Pneumatic Controller Models

350-0002 Standard Pneumatic Controller

**350-0011 Standard Pneumatic Controller Right
Angle**

350-0013 Remote Valve Pneumatic Controller

350-0027 MICRO-Z Small Dot Pneumatic Controller

**Includes Links to All Currently Released Pneumatic
Inker Product Manuals Available for Viewing and**





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Safety and Hazard Identification Symbols








Safety and Hazard identification symbols used in this document are intended to be compliant with ANSI/NEMA Z 535.6 2017. The table below lists the symbols used in this document along with a description of each type of safety hazard. Failure to observe identified safety risks may result in serious injury or death.

Symbol	Description
	DANGER = Indicates a hazardous situation which, if not avoided, will result in death or serious injury
	WARNING = Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION = Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	NOTICE = Indicates a practice that is not related to personal injury but may cause damage to equipment or property.

Pneumatic Inker Safe Operation

	Ink Cartridge needle can pierce skin when moved manually or when shuttle valve is actuated: Keep hands and fingers clear of the cartridge needle tip during and after cartridge change out and priming. Never place hands or fingers under the cartridge needle.
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Pneumatic Controller Safe Operation

	Use this product only in the manner described in the product manual. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
	Install the pneumatic controller in a location that is easily accessible to the operator. The ON/OFF switch is the pneumatic controller's main disconnecting device and must be easily accessible at all times.
	For your safety, the AC power cord set provided with your product has a grounded plug. Always use the power cord with a properly grounded wall outlet, to avoid the risk of electrical shock.
	Do not operate this product with a damaged AC power cord set. If the AC power cord set is damaged in any manner, replace it immediately. Damaged cords may result in user exposure to hazards.
	The power cord set received with the product meets the requirements for use in the country where you purchased the equipment. Use only the power cord provided with the unit or an authorized replacement power cord from Xandex Inc. or an approved Xandex distributor. Use of an inadequately rated power cord may result in shock or injury.
	Do not operate this product with a damaged DC power supply. If the DC power supply is damaged in any manner, replace it immediately. A damaged DC power supply may result in user exposure to hazards.
	The DC power supply received with the product meets the requirements for use in the country where you purchased the equipment. Use only the DC power supply provided with the unit or an authorized replacement power supply from Xandex Inc. or an approved Xandex distributor. Use of an inadequately rated power supply may result in shock or injury.

Find Your Product Manual	
X5100 Series Pneumatic Inker Manual 820-0033 Set P/N 340-5100 https://www.xandexsemi.com/products/manuals/8200033.pdf	
	X1100 Series Pneumatic Inker Manual 820-0069 Set P/N 340-1100 / 340-1105 https://www.xandexsemi.com/products/manuals/8200069.pdf
X901 Hand Pneumatic Inker Manual 820-0057 Set P/N 340-0901 https://www.xandexsemi.com/products/manuals/8200057.pdf	
	X1400 Series Pneumatic Inker Manual 820-0072 Set P/N 340-1412 / 340-1410 / 340-1413 https://www.xandexsemi.com/products/manuals/8200072.pdf
X5200 Series Pneumatic Inker Manual 820-0058 Set P/N 340-5200 / 340-5210 https://www.xandexsemi.com/products/manuals/8200058.pdf	
	X7110 Manual and X7120 Motorized Micro-Z Small Dot Pneumatic Inker Manual 820-0332 Set P/N 340-7110-01 through -05 Set P/N 340-7120-01 through -05 https://www.xandexsemi.com/products/manuals/8200332.pdf

Manuals for currently released pneumatic inker models are listed in this document. Manuals for discontinued models are available at www.xandexsemi.com/products/manuals.html

Xandex Inking Products Limited Warranty

Seller warrants as follows:

All material supplied will conform to the description stated. All products will be free of defects in materials and workmanship under normal use for the following periods:

Stated shelf life of DM-2 Ink Cartridges:

- 6990, 6993, 6997 = Four (4) months. Five (5) days after cartridge opening
- 8103 and 8104 (except 8103 White) = Four (4) months. Three (3) days after cartridge opening.
- 8103 White = Two (2) months. Three (3) days after cartridge opening.
- 7824 and 7824T = Four (4) months. Three (3) days after cartridge opening.

Pneumatic Controller = One (1) year only when clean, dry, filtered air is used, and when product is installed and operated per manufacturer's recommendations and instructions.

Ninety (90) days from the date of delivery to the customer for all other products.

Xandex makes no other warranty, express or implied, including without limitation any warranty of merchantability or of fitness for a particular purpose. Customer, OEM or Distributor's exclusive warranty shall be, at Xandex's option, to have defective product repaired or replaced, or to receive a refund of purchase price.

Xandex may, upon request, furnish to buyer such technical advice, as it may be able to supply with reference to the use by buyer of any materials delivered. Xandex assumes no liability for the advice given or results obtained. Buyer expressly agrees that it will implement any advice thus given at its own risk and agrees to indemnify and hold Xandex harmless against any liabilities, costs or expense resulting therefrom.


Xandex makes no warranty for performance, service or support of any products unless they are purchased directly from Xandex or through an authorized Xandex Distributor.





Exclusions: This warranty shall not apply to defects or damage resulting from:

- Improper or inadequate maintenance by customer, including failure to perform preventive maintenance per manufacturer's specified schedule
- Misuse or unauthorized modification
- Operation outside the environmental specifications for the product
- Improper site preparation and maintenance

Some states and provinces do not allow limitations on how long an implied warranty lasts, so the limitation or exclusion contained in this warranty may not apply to you. However, any implied warranty of merchantability or fitness is limited to the duration period of this written warranty. If you have any questions or need further assistance please contact your authorized Xandex distributor or contact our Customer Service Group.

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 web: www.xandexsemi.com email: info@xandex.com

DC Power Supply Specifications / Certifications All Pneumatic Inker Models	
The DC power supply received with your DieMark inking system meets these requirements. Use only the DC power supply provided with the unit or an authorized replacement power supply from Xandex Inc. or an approved Xandex distributor.	
Input Power Requirement:	100-240 VAC @ 50-60Hz
Output Power Requirement:	24V \pm (VDC) / 0.75A or greater
Approvals:	UL / FCC / PSE / CCC / CE / WEEE / ROHS
Protection:	Overvoltage / Short Circuit
Output Pin Assignments:	Center: +V Outside: Return 
Output Plug Size:	Outside Diameter: 5.5mm Inside Diameter: 2.5mm Barrel Length: 9.5mm

Pneumatic Controller Certifications: All Models	
	Standards to which conformity is declared: EN61010-1 / EN61326-1 Marked for LVD and EMC
RoHS	RoHS Compliant with EU Directive 2011/65/EU
	This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may be received or that may cause undesired operation.
	Xandex Inc. has labeled its branded electronic products with the WEEE Symbol to alert our customers that products bearing this label should not be disposed of in a landfill or with municipal or household waste in the EU.
	Conforms to UK Directives: 2016 No.1101 Electrical Equipment (Safety) 2016 No.1091 Electromagnetic Compatibility 2012 No.3032 RoHS Standards to which conformity is declared: BS EN IEC 61010-1:2010 BS EN 61326-1:2013

Pneumatic Controller Specifications									
Size:	350-0002 / 350-0011: 6.4" x 7.9" x 4.3" (16.3 x 20 x 11cm) 350-0013: 6.4" x 9.3" x 4.3" (16.3 x 23.6 x 11cm) 350-0027: 6.4" x 7.6" x 4.3" (16.3 x 19.3 x 11cm)								
Weight:	350-0002: 2.5 lbs (1.13 kg) 350-0011: 2.5 lbs (1.13 kg) 350-0013: 2.1 lbs (0.95 kg) 350-0027: 3.25 lbs (1.8 kg)								
Input Power: (All Models)	24V \pm (VDC) 0.84A								
Foot Switch Input: (All Models)	Contact Closure >50 msec								
Air Consumption:	350-0002 / 350-0011 / 350-0013: 70 PSI \pm 10 PSI Instrument Air per ISA 7.3 specification. <0.5 cfm @ 10 dots/second 350-0027 (2 REGULATORS) 80 PSI \pm 5 PSI Instrument Air per ISA 7.3 specification. <0.5 cfm @ 10 dots/second								
Cycle Rate: (All Models)	Exceeds 750 cycles/minute								
Counters: (All Models)	Eight Digit with External Reset (Independent of Microprocessor)								
External Regulator/Filter:	5.0 micron Air Filtration All Models								
Prober Input: (All Models)	12 - 60 volts @ minimum 30ms pulse width. The input circuit presents approximately 1 K Ω - 700 Ω input resistance. Typical current as a function of input voltage is listed in the following table:								
	<table border="1"> <tbody> <tr> <td>15V</td> <td>25 mA</td> </tr> <tr> <td>20 V</td> <td>45 mA</td> </tr> <tr> <td>40 V</td> <td>65 mA</td> </tr> <tr> <td>60 V</td> <td>85 mA (Maximum input)</td> </tr> </tbody> </table>	15V	25 mA	20 V	45 mA	40 V	65 mA	60 V	85 mA (Maximum input)
15V	25 mA								
20 V	45 mA								
40 V	65 mA								
60 V	85 mA (Maximum input)								
Environmental Range:	Indoor use Altitude up to 2,000 m Temperature range 5° C to 40° C Maximum relative humidity 80 % for temperatures up to 31°C decreasing linearly to 50 % relative humidity at 40 °C								

Service and Support



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