

Ex Print

Hazardous area label printing, simplified



Ex Print: Hazardous area label printing, simplified

Printers for barcode and batch labels are found in most manufacturing facilities. If the printer is to be located in a hazardous area, for instance within a chemical or pharmaceutical production line, then a certified solution is required to ensure safe operation. Expo has worked with Zebra Technologies, a leading manufacturer of industrial label printers, to develop the Ex Print, a standard certified solution based around their popular ZT111 4" industrial label printer. By applying our expertise in electrical equipment protection by Purge & Pressurization, (Ex p), the Ex Print is suitable for use in both gas and dust environments: ATEX/IECEX Zone 1, 2, 21 & 22, North American Class I & II, Division 2.



Market leading industrial label printing from Zebra Technologies

- 4" thermal transfer label printing
- Fast print speed (203dpi: 10 ips; 300dpi: 6 ips)
- Full compatibility with Zebra software & ecosystem
- Backed by Zebra's worldwide service & support network

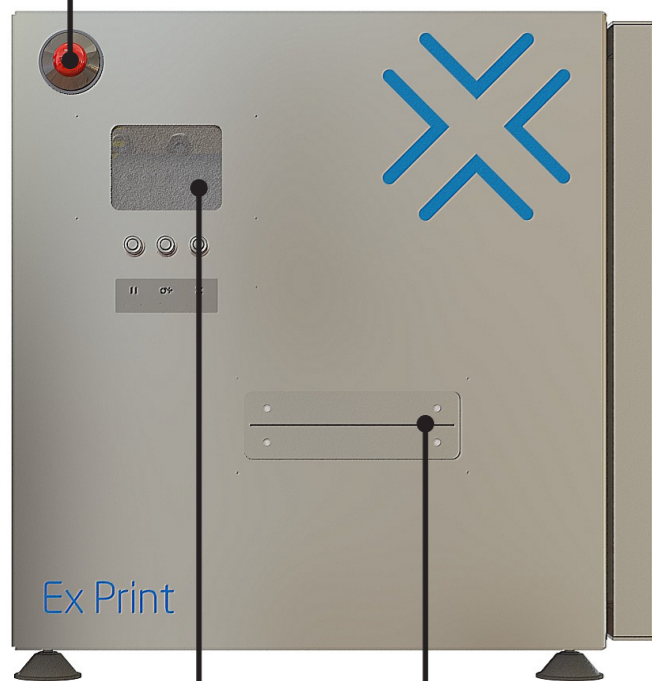


Hazardous area know-how from Expo Technologies

- Explosion protection for gas and dust environments
- ATEX & IECEx certified; Compliance to NFPA 496
- 316L stainless steel enclosure for industrial & ultra-clean environments
- Simple installation and operation

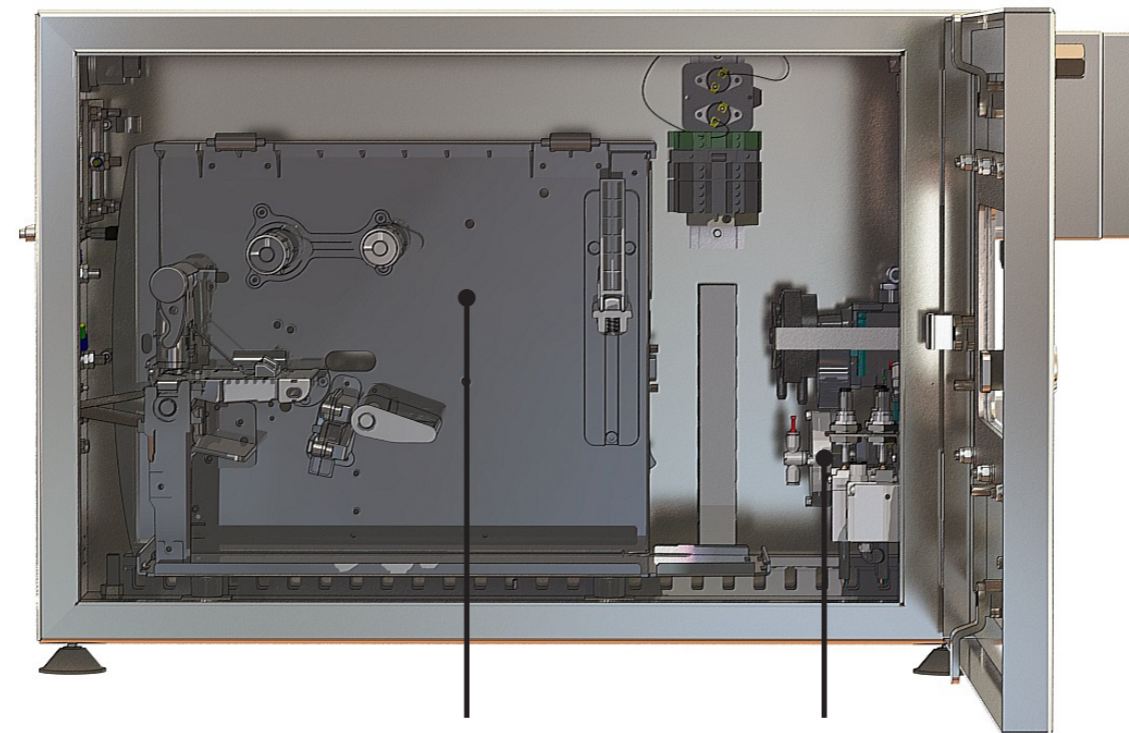


Enclosure pressure status



Printer control push-buttons & status window

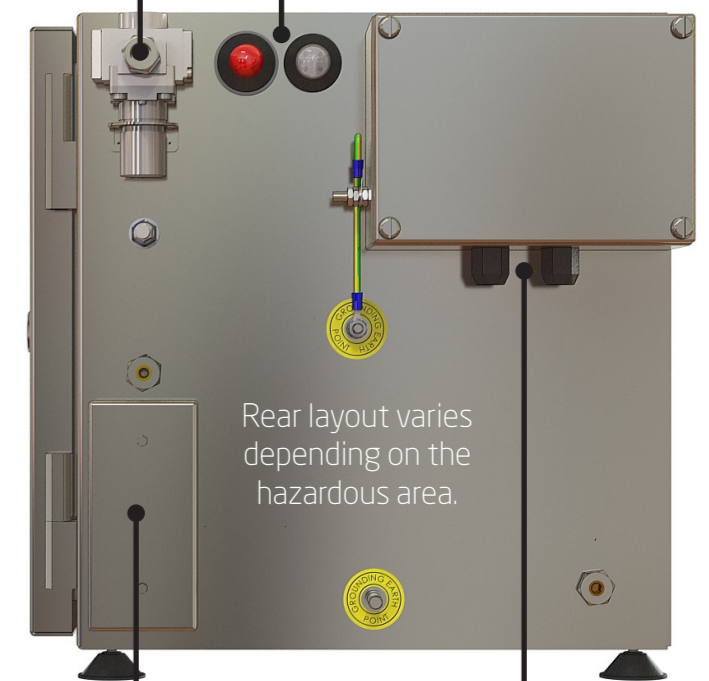
Low leakage label exit slot



Modified ZT111

Purge control system

Air inlet regulator
Enclosure pressure & purge status



Purge outlet / safety valve

Ethernet & power junction box

Rear layout varies depending on the hazardous area.

Expo have simplified hazard area printing with the Ex Print



Proven Zebra
print performance



Explosion protected for
gas and dust environments



Simple installation
and operation

Specifications

Printer	Zebra ZT111 (203 or 300 dpi).
Instrument air	Supply pressure: 3.5-7 barg (50-101 psig) Flow rate: purge phase 225 NLPM (8 SCFM) Flow rate: pressurization phase 25 NLPM (0.9 SCFM) approx.
Power	100-240 VAC; 50-60 Hz
Hazardous environment—gas	ATEX/IECEX Zone 1 & 2. North American Class I, Division 2
Hazardous environment—dust	ATEX/IECEX Zone 21 & 22. North American Class II, Division 2
Hazardous area protection method	Gas: Protection by purge & pressurization. Zone 1: Purge time 10 minutes (automatic) Zone 2 & Class I Div. 2: Purge time 4 minutes (manual) Dust: Protection by pressurization.
Approvals	ATEX & IECEX certified. Compliance to NFPA 496
Electrical terminal box*	ATEX/IECEX: Zone 1 & 21—Ex e , Ex tb certified.
Operating temperature	+5 °C to +35 °C (+41 °F to +95 °F)
Enclosure material	316L stainless steel 2.0 mm thick / laminated glass 6.4 mm thick
Ingress protection	IP42
Enclosure dimensions	375 x 384 x 702 [max.]* mm. (14.8 x 15 x 28 [max.]* in.)
Weight (incl. printer)	30 kg (66 lb)
Communication to printer	Ethernet. Push buttons for Pause, Feed, Cancel.

* Overall system depth dependent on electrical terminal box configuration.



Expo operates in more than 50 countries worldwide. To find out more about how Expo can help you solve your hazardous area problems, get in touch via our website www.expoworldwide.com or through your local channel partner.

You can speak to an applications engineer at one of our regional offices.

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