



GEMSTAR-XT™
EMERGENCY OFF

GEMSTAR XT EMO AND AUX INTERFACE V1.1



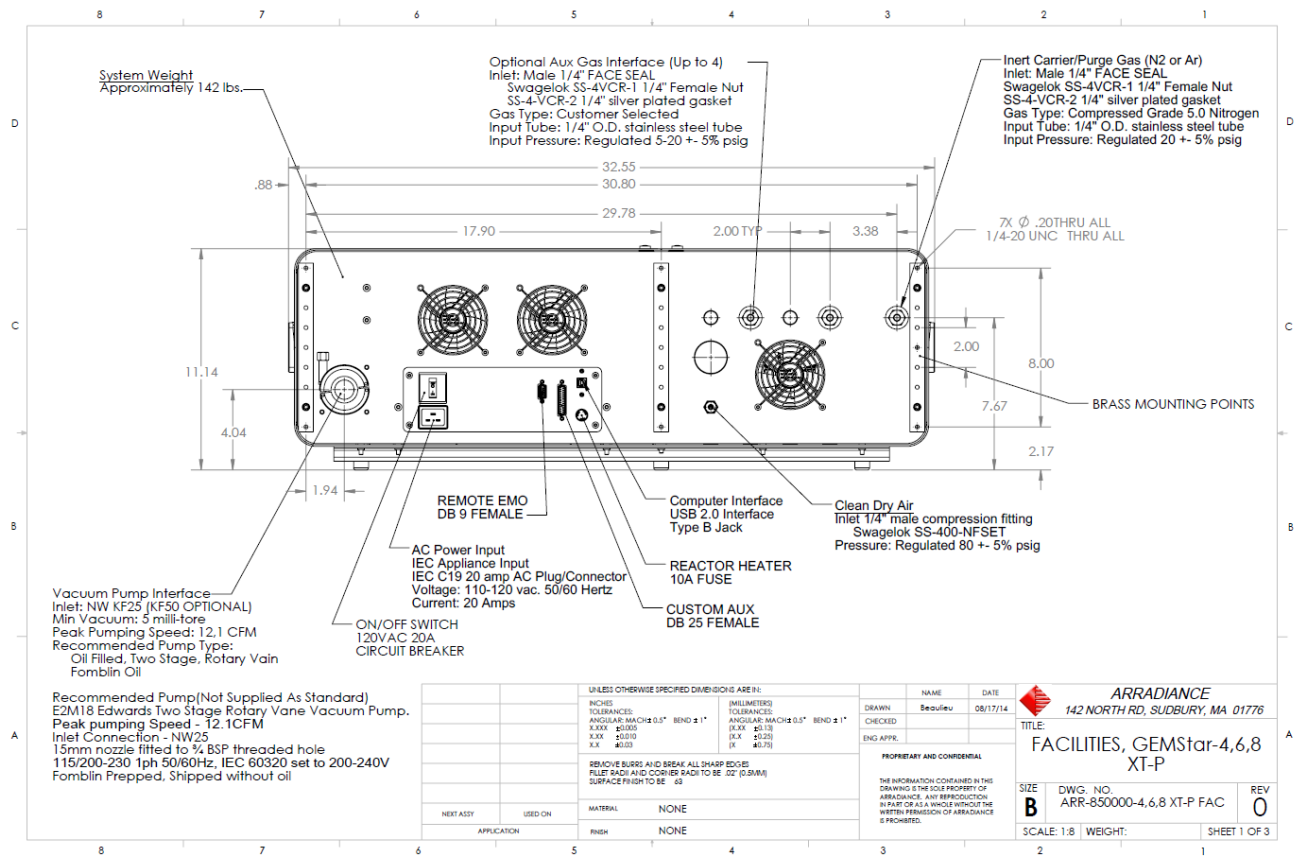
Arradiance

142 North Road, Suite F-150
Sudbury, MA 01776
(800) 659-2970 Tel and Fax
www.arradiance.com

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Emergency Off DB 9 Female (EMO)

All GEMStar XT systems include a connection allowing attachment of an Emergency off Switch. Optionally Arradiance can provide a pre-wired switch/cable/connector allowing this to be located in the most convenient location in your facility using the standard 9 pin DB connector located on the back of the system. As delivered, a DB connector is in place closing this circuit.

For GEMStar XT Thermal ALD systems, if opened an internal relay in the GEMStar CTRL removes A/C power to all system heaters and 24V to all normally closed ALD and vacuum isolation valves.

In addition for GEMStar XT-P PEALD Systems, plasma power and power for plasma gas Mass Flow Controllers are also removed.

GEMStar SW will recognize this event and log/notify user.

Gemstar XT Emergency Off Example Circuit



Remote EMO DB 9 Female" Gemstar-XT Connector:

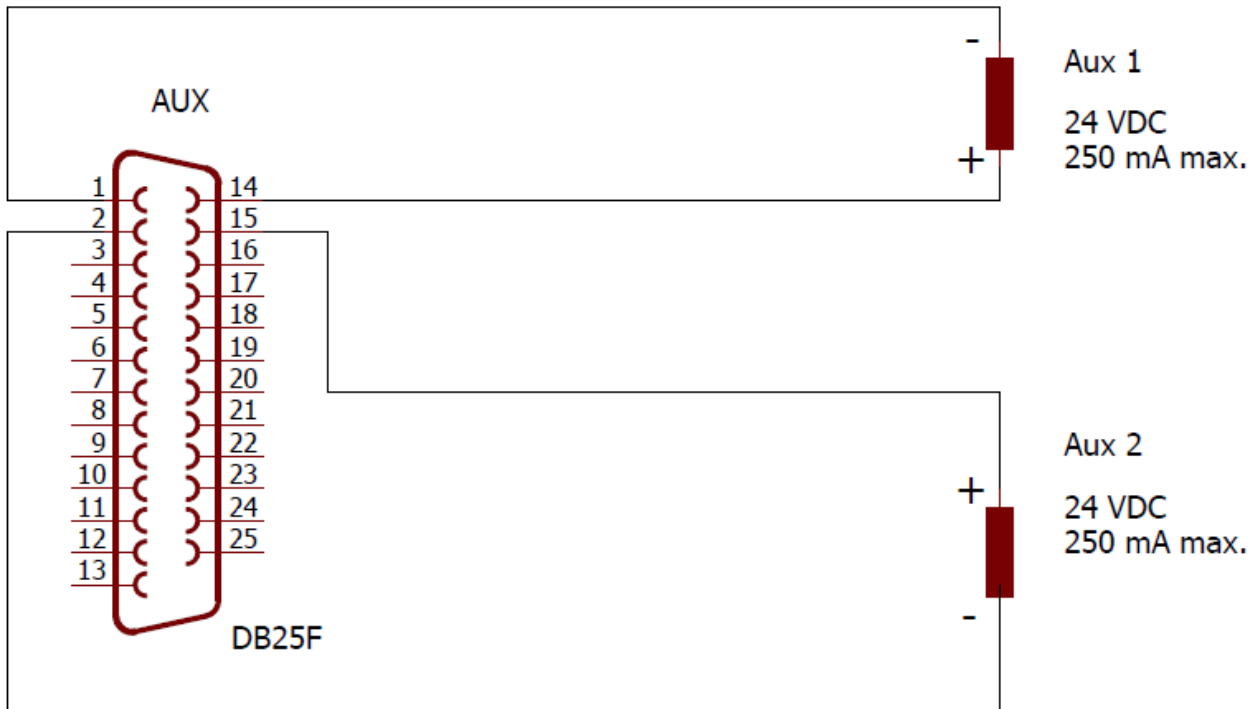
Pin Number	Signal Name
Pin 9	+24_Hi
Pin 8	+24_Lo

Gemstar XT requires a "Normally Closed" "dry contact" switch between P9.8 and P9.9 to enable equipment operation. Maximum open circuit voltage is 24 VDC, and maximum short circuit current is 250 mA

Custom Aux DB 25 Female (AUX)

All GEMStar XT systems include a connection allowing auxiliary item attachment. Note: this is typically used for PEALD systems and pin locations except those listed below may change. However, the following are offered and can be script/job controlled as standard.

Gemstar XT Aux. Interface Example Circuit



Custom Aux DB 25 Female" Gemstar-XT Connector:

Pin Number	Signal Name
Pin 14	+24 VDC
Pin 1	Aux_1
Pin 15	+24 VDC
Pin 2	Aux_2

The Gemstar XT "Custom Aux DB 25 Female" Connector provides two +24 VDC control circuits for interfacing with peripheral equipment. Custom software logic for control of these lines is required. Contact Marketing@Arradance.com for requests.