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	Interlock - Interface : Pin Descriptions on C3 based Power Generators	Rev. date 30-Oct-06	Rev. A 04

Products: C3 - based Power Generators with Analog Dressler User Port (Generators with AE User Port : Interlock loop is integrated to this AE User Port)

Subject: Interlock – Interface / Pin Layout and Description

Interlock Interface

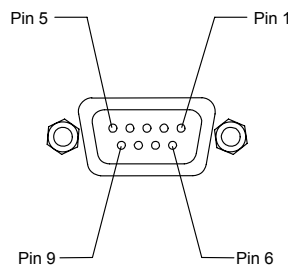
This Interlock Interface allows to integrate any Dressler Power generator into a so called “System interlock loop” for interrupting the delivered RF Power in cases of a critical and unwanted mode of the system.

Example : Opening a door or a window of a Plasma chamber while the RF power still is switched to on.

Please note that this Interlock loop does not fulfill the safety requirements for “personal safety” of an operator in industrial and medical systems.

Connector Type

9-pin D subminiature, shielded, female.



Signal	Pin No.	In or Out	Level	Return	Type	Description
Interlock Input (+)	1	Input	5 – 24V	Pin 3	floating	Contact closure to pin 2 via the user's external interlock loop. The user may also provide a 12 to 24 VDC signal referenced to pin 3 to inform the generator that an external interlock is satisfied.
Interlock Output	2	Output	15V	Pin 3	floating	Contact closure to pin 1 via the user's external interlock loop. This voltage output is floating and has no reference to GND
Interlock Return (-)	3		0V		floating	This is the return pin for an external interlock satisfied signal. This pin must be used as return for the external interlock voltage, because the Interlock Input (Pin1) is floating and has no reference to GND.
GND shield	4					Connect to the shield of the external interlock cable.

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