

DESCRIPTION: OZONE GENERATOR, Model 5000 OG-B-1-S remote operation description	ADDENDUM #: 1106B DCN7964 09 August 2018	PAGE: OF: 1 2
---	---	-------------------------

Remote operation of Teledyne API's IN USA-brand ozone generator Model OG-B-1-S has been modified as follows:

1. Connections

Interface connections are through a DB15 female connector, located at the unit's rear panel. Detailed description on the pinout of this connector can be found in the table below:

Pin	Name	Type	Description
1	Operate NO	Dry Contact Output	Internally connected to pin 9 when ozone generation is ON.
2	Operate NC	Dry Contact Output	Internally connected to pin 9 when ozone generation is OFF.
3	Alarm COM	Dry Contact Output	Common contact for generator alarm signal (pins 10 and 11).
4	Start	Digital Input	This input should be connected to GND for at least 300ms to turn ozone generation ON.
5	Stop	Digital Input	Connect this input permanently to GND to enable generator to start and maintain operation. Disconnecting this input from GND would stop the ozone generation.
6	External Alarm (-)	Digital Input	Return signal for External Alarm.
7	Power Control (-)	Analog Input	Return for power control signal.
8	Auxiliary Voltage (+)	Power Output	Auxiliary 24 VDC supply (45mA max).
9	Operate COM	Dry Contact Output	Common contact for generator operate signal (pins 1 and 2).
10	Alarm NO	Dry Contact Output	Internally connected to pin 3 on ALARM condition.
11	Alarm NC	Dry Contact Output	Internally connected to pin 3 on NO ALARM condition.
12	Start / Stop (+)	Digital Input	Positive pole for Start and Stop signals. This input should be permanently connected to 24VDC.
13	External Alarm (+)	Digital Input	Connect this input permanently to 24VDC to enable generator to start and maintain operation. Disconnecting this input from 24VDC would set the generator to Alarm mode.
14	Power Control (+)	Analog Input	Analog signal controlling ozone generator power setpoint. 0-5VDC signal mapping 0-100% power.
15	Auxiliary Voltage (-)	Power Output	Return for auxiliary supply.

2. Local Operation

Local operation of the ozone generator remains unchanged. Please be aware that the External Alarm signal, pins 13 and 6 of the described interface, are required for either Local or Remote operation modes.

DESCRIPTION: OZONE GENERATOR, Model 5000 OG-B-1-S remote operation description	ADDENDUM #: 1106B DCN7964 09 August 2018	PAGE: OF: 2 2
---	---	-----------------------------

3. Remote Operation

To operate the ozone generator remotely, please follow the following steps.

To start ozone generation

- On the unit's front panel, set the LOCAL/REMOTE switch to REMOTE.
- Provide a 24VDC signal to meet the External Alarm requirements. External Interlock LED, on unit's front panel, should turn off.
- To enable the ozone generator to start, override the Stop signal by providing 24VDC on pin 12 and GND on pin 5
- To start the ozone generation, provide a GND pulse (300msec minimum) on pin 4. Ozone ON LED, on unit's front panel, should turn on.
- To adjust power setpoint, provide a 0-5VDC on Power control signal.

To stop the ozone generation

- Interrupt current flow through Stop signal by either disconnecting 24VDC from pin 12 or GND from pin 5. Ozone ON LED, on unit's front panel, should turn off and Stand By LED should turn on.