



GAI-TRONICS® CORPORATION
A HUBBELL COMPANY

Model DEX-202 Digital 120 V AC Hazardous Area Driller's Intercom Station

General Information

This data sheet applies to the Model DEX-202 Digital 120 V AC Hazardous Area Driller's Intercom Station. The Driller's Intercom is a communications system designed to serve the needs of oil and gas industry on oil drilling platforms, especially in hazardous areas.

The Driller's Intercom station consists of a factory-sealed enclosure (top) and a termination enclosure (bottom). The enclosure is rated NEMA-4X.

The audio, control, and power components for this assembly are contained in the factory-sealed enclosure. The front panel of the factory-sealed enclosure contains the user interface components (microphone, status LED and keypad).

All system terminations (power, speaker, system, and footswitch) are to be made in the termination enclosure.

This station requires an external speaker (sold separately) to operate. Also, a customer-supplied beacon and footswitch can be added to this unit for visual status indication and talk/listen control.

⚠ CAUTION ⚠ Use only suitably listed components for the hazardous area.

Each Driller's Intercom system requires a Central Switch to operate. The Central Switch must be located in a non-hazardous area. The configuration parameters for all components of the system are set in the Central configuration.

Each central switch can manage up to 16 digital subscribers, and can be expanded to 32 subscribers. Central switches can be linked or a larger switch can be used for increased system size. By combining central switches, the system is easily expanded at any time.

All stations must be connected in a star configuration to the Central Switch, but power to the stations can be daisy-chained.

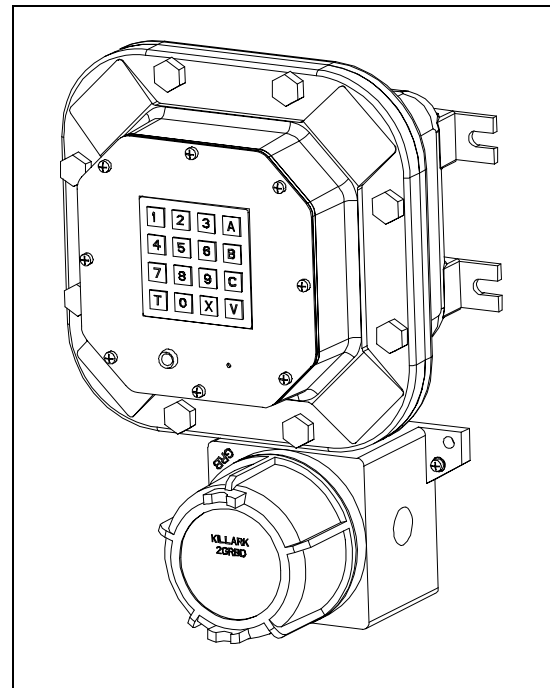


Figure 1. Model DEX-202 Driller's Intercom

Specifications

Power input (120 V ac).....	Voltage.....	108/132 V ac range, 50/60 Hz
	Power consumed.....	23 VA, 10 watts (nominal) 52 VA, 50 watts (maximum)
Power input (240 V ac).....	Voltage.....	216/264 V ac range, 50/60 Hz
	Power consumed.....	43 VA, 11 watts (nominal) 63 VA, 50 watts (maximum)
Construction finish	Enclosure.....	Gray powder epoxy/polyester on exterior surfaces
	Front panel	Passivated stainless steel
Microphone amplifier	Frequency response	200–4,000 Hz, +/-3 dB ref. @ 1 kHz
Speaker amplifier	Output	Class AB, 18 watts min. into 8 ohms, with nominal supply voltage
	Frequency response	200–10,000 Hz, +/-3 dB ref. @ 1 kHz
	Distortion	1% max. THD @ 1 kHz, 18 watts
Loudspeaker		8 or 16 ohms
Inputs		16-button keypad, footswitch, speaker volume adjustment (adjusted through keypad)
Outputs		Call Indication LED Beacon control: 30 V @ 3 A (max.)
System cabling		Star-feed, 2-wire twisted pair
Temperature range.....		-4° F to + 140° F (-20° C to +60° C)
Dimensions		10.31 W × 16.11 H × 8.07 D (262.0 × 409.2 × 205.0 mm)
Shipping weight		34 lbs.
Approvals		
UL		NRTL Listed for USA and Canada Class I, Div. 1 & 2, Groups C & D T4 Class I, Zones 1 & 2, Group IIB & IIA Class II, Div. 1 & 2, Groups E, F, & G Class III, Div. 1 & 2, Type 4X