95/TX Alarm Station & Repeater

Remote Wireless Alarm Station with Audible & Visual Warning Includes Range-Enhancing Wireless Repeater Capability

- Locate alarm points for maximum effectiveness and personnel safety
- Alarm on wireless data from up to 32 GASMAX TX gas monitors
- 900Mhz or 2.4Ghz frequency hopping spread spectrum technology
- No limit to the number of 95/TX Alarm Stations in each system
- Works with new GASMAX TX gas detector and C2/TX Controller
- Programmable repeater function rebroadcasts values and alarm data
- Supports low-cost, simplified single point alarm configurations
- Magnetic keypad for non-intrusive operation in hazardous areas
- Power output adjustable from 10 mW to 1.0 Watt at 900Mhz
- Includes 3x programmable alarm relays and dedicated fault relay
- Typical > 1 mile range with local 'whip' antenna (900Mhz)
- Manufactured in USA

The 95/TX Alarm Station and Repeater in an integral part of the next generation GDS Corp wireless gas detection system, combining unteathered visual & audible alarms with range-enhancing RF repeater capability in a single device.

Alarms Where You Need Them
The 95/TX Alarm Station continuously monitors alarm status for up to 32 remote GASMAX TX gas monitors and activates warning lights and high intensity horns whenever one or more of the monitored gas detectors enters an alarm state. Four internal 5A SPDT programmable relays can be connected to integrated warning devices, or used to signal alarm conditions to 3rd party customer devices via relay-contact-closure signals. Configuration data from each gas detector's user setup is automatically uploaded into the 95/TX on initial power up and every few hours thereafter.

Repeater Functionality
If environmental conditions are such that a GASMAX TX signal cannot reliably reach the designated controller / receiver due to distance or obstructions, the 95/TX Alarm Station can be programmed to receive and retransmit wireless messages from GASMAX TX gas monitors on a channel-by-channel basis. Transmit power is adjustable from 10mW to 1.0 watt for 900Mhz and is fixed at 50mW for 2.4 Ghz.

Low Cost Standalone Solution
Although most systems require the more sophisticated alarming and monitoring capability found in the GDS Corp C2/TX Wireless Site Manager, the 95/TX Alarm Station can be used as a combination network controller and alarm station in a stand-alone, low cost configuration. Contact GDS Corp for more details.

95/TX Remote Alarm & Repeater Station, shown with optional Red Strobe

The 95/TX Alarm Station requires an external source of 10-30VDC and is well suited for 12V solar power applications. Options include 110/220VAC power supply, rated or non-rated local or remote strobe lights and horns and directional and omni-directional wireless antennas.

GDS Corp
Gas and Flame Detection

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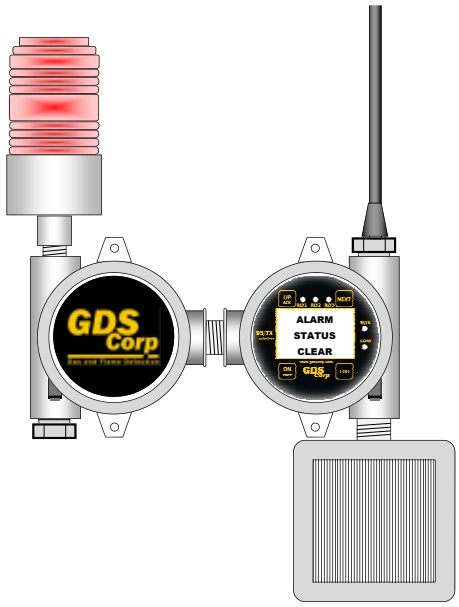
95/TX Specifications	
Power Input	24VDC, 12VDC or 110/220VAC (Specify)
Display	128x64 pixel LCD display
Input	Wireless 900 MHz or 2.4 GHz transmissions from up to 32 single channel GASMAX TX monitors or 16 dual channel GASMAX TX gas monitors (any combination of 32 independent channels)
Relay Output	Four programmable relays (SPDT 5A @ 30VDC / 240VAC resistive load) plus dedicated FAULT relay
Digital Output	None
Audible Output	Optional local piezo / horn (see option "C") Optional remote horn (see option "D")
Visual Output	Optional local strobe (see option "B")
Temp	-25°C to +50°C operating
Housing	Aluminum housing with epoxy paint standard. Optiona #316 stainless steel housing available [SS]
Dimensions	NEMA 4X Non-metallic: 11.25" x 13.31" x 7.25" NEMA 4X Painted or stainless: 9.84" x 13.65" x 6.2" NEMA 7: Width 13" x 14.25" x 6.25"
Approvals	Approvals pending
Warranty	2 years from date of purchase



Determining Wireless Communications Range

The distance at which any wireless connection will operate is dependent on many factors, including terrain, frequency, path length, interference from existing radio sources, combined antenna height, transmitter power and receiver sensitivity. For reliable communication, the system power margin (TX power + RX gain + Antenna gain - Path Loss) must exceed 20 dB. Range can be improved by increasing antenna height, using directional antennas or increasing transmitter power.

95/TX Order Guide	
95/TX A/B-C-D-E/F-G-H [900][2400][SS][TAG][XBN]	
A	ANTENNA 1 = Standard local omnidirectional antenna 2 = Flexible local omnidirectional antenna 3 = Remote omnidirectional antenna + 10' cable 4 = Remote directional antenna + 10' cable 5 = Remote omnidirectional cable + 20' cable 6 = Remote directional antenna + 20' cable 7 = Explosion proof antenna suitable for C1D1
B	LOCAL STROBE 0 = None 1 = Red strobe (C1D2) 2 = Yellow strobe (C1D2) 3 = Blue strobe (C1D2) 4= Purple strobe (C1D2) 5 = Red strobe (not rated) 6 = Yellow strobe (not rated) 7 = Blue strobe (not rated) 8 = Purple strobe (not rated) 9 = Dual local strobe option (contact factory)
C	LOCAL HORN 0 = None 1 = 110 dB external horn (not rated) 2 = 110 dB external horn (C1D2)
D	REMOTE LIGHT STACK 0 = None 1 = Remote C1D2 with two strobes (specify) 2 = Remote non-rated with two strobes (specify) 3 = Remote C1D2 with three strobes (specify) 4 = Remote non-rated with three strobes (specify) 5 = Remote C1D2 with two strobes + horn 6 = Remote non-rated with two strobes + horn 7 = Remote C1D2 with three strobes + horn 8 = Remote non-rated with three strobes + horn
E	REMOTE LIGHT STACK CABLE 0 = None 1 = 10ft / 3m suitable for C1D2 w/ quick connects 2 = 25ft / 8m suitable for C1D2 w/ quick connects 3 = 50ft / 15m suitable for C1D2 w/ quick connects
F	MOUNTING HARDWARE 0 = None 1 = Plate with 2" pole-mounting hardware 2 = Plate with 2" pole-mount + 3" yellow stand
G	POWER SUPPLY 1 = 24VDC 2 = 110/220VAC 3 = 12VDC (Solar)
H	REPEATER 0 = OFF 1 = ON (Field Selectable, Specify Channels)
	[900] = 900 MHz primary radio [2400] = 2.4 GHz primary radio [SS] = Stainless steel enclosure(s) [TAG] = Stainless steel identification tag [XBN] = C1D2 alarm acknowledge / PTT button

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