

INDUSTRIAL PAGING SYSTEMS

Everything is Possible

FLAMEPROOF WALL MOUNTING INDUSTRIAL PA STATION LDD 8823

D.D. Electronic Equipments Pvt Ltd.

(A leading Manufacturer, Sales & Service Providers in Industrial **Communication & Fire Alarm Systems)** Presents Flame proof/Weather proof Intrinsically Safe Paging System suitable for Hazardous areas.

Salient Features:

EQUIPMENT IS CERTIFIED FOR USE IN HAZARDOUS AREAS GAS GROUPS I, IIA & IIB and ZONE 1 & 2 ATMOSPHERES AREA.

FLAMEPROOF TESTING IEC 60079-1:2007 IP PROTECTION CLASS IP 55 (WITHOUT CANOPY) TEMPERATURE CLASS T6 IP PROTECTION CLASS IP 65 (WITH CANOPY) CMRI CERTIFICATE NO. CIMFR/TC/SR/410 Dt. 27.08.2013 INTRINSICALLY SAFE TESTING IS:5780-2002(IEC 60079-11(1999) CMRI CERTIFICATE - IS CKT CIMFR/TC/P/H113 Dt. 16.05.2007 TWO INDEPENDENT COMMUNICATION CHANNELS (PRIVATE & PAGE) CONSTRUCTION- SUITABLE FOR EASY INSTALLATION & SERVICING COMPATIBLE WITH PHILIPS/BOSCH & SIMILAR MAKE PAGING SYSTEM SIMPLICITY OF OPERATION DISTORTION FREE COMMUNICATION ON BOTH CHANNELS FRONT PANEL BUSY INDICATIONS INDEFINITE SHORT CIRCUIT (BOTH CHANNELS) PROTECTED OPERATING VOLTAGE SELECTION PROVIDED: DC (36V) SUPPLY

& AC SUPPLY (110V/240V AC)

TECHNICAL SPECIFICATION

Flameproof/intrinsically Safe Handset Station

LDD 8823

GENERAL

LDD 8823 is a flameproof communication station with an intrinsically safe handset. This unit is suitable for paging and communication applications in industrial areas having hazardous atmospheres. The main enclosure of the equipment is designed to meet requirements of flameproof as per IEC 60079-1:2007 (for gas groups IIA and IIB) and weatherproof for IP-55. The handset is rendered intrinsically safe by using protective circuits housed inside the flameproof enclosure.

MECHANICAL SPECIFICATIONS FLP ENCLOSURE

The flameproof enclosure is a two-compartment housing comprising of a main FLP compartment and FLP terminal compartment. Further, an IS (intrinsically safe) terminal chamber cover is provided on the cover of the main



compartment. All these parts are made up of LM-6 cast aluminium alloy of recommended composition. At the bottom of the FLP terminal compartment, 5 nos. of integrally cast bosses are provided.

Two the detachable covers of the FLP enclosure: namely, the main compartment cover and the FLP compartment cover; are fitted with warning inscription plate of brass indicating "DO NOT OPEN WHEN ENERGIZED". Additionally, a rating/instruction/name plate of brass is also provided on the cover of the main compartment, IS terminal chamber.

The cover of the main compartment of the FLP enclosure also carries 7 nos. of flameproof terminals for bringing intrinsically safe (IS) circuits out of the main FLP enclosure. These terminals are protected via an IS terminal chamber made up of LM6 cast aluminium alloy. The terminal cover also carries a cradle assembly on the front for mounting the IS handset assembly.

IS handset assembly:

The IS handset assembly comprises of a main body (carrying the mouthpiece and earpiece transducers) and a retractile cord assembly. The main body is made up of ABS molded plastic. A special protective circuit is housed inside the flameproof enclosure renders the handset intrinsically safe.

INDUSTRIAL PAGING SYSTEMS

WEIGHT

The Net Weight is 16 Kg. Net & 19.50 Kg is packed(IN CRATE).

COLOR:

FLP Enclosure 1 Blue. IS Handset Black

CONTROLS AND FACILITIES:

This station offers two channels of communication viz. Private. Normally when the Handset is resting in the c not connected to any of these channels and the station "receive" incoming signal on Page channel. This reproduced over the external horn LS.

When the handset is lifted off the cradle, it gets connect private channel and duplex communication is possib handset. During this mode the station is still capable of signal on Page channel and reproducing it over the exte LS. An indication lamp on the front cover of the station whenever the private channel is busy. While the han the cradle if the Page switch is pressed; the hand connected to the Page channel-,(as long as the swit pressed) and paged announcement can be broadcast stations connected to the system cable. An alert to generated by the station to precede every paged annou

A Call/Mute switch provided on the front cover, whe serves two functions:

The external horn LS is muted (This is an useful f carrying out E undisturbed conversion over the private A Call request signal is sent over the system cable.

ELECTRICAL SPECIFICATIONS:

Power Supply :

Rated supply voltage : 240V, 50 Hz (+/-10%) Current consumption: 85 mA (typ.) with Normal condition : 175 mA (typ) With Full load condition **Optional provisions** : The unit may be wired to operate from 240V/110Volts (50Hz) AC and 36V DC

Work Address :

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D.D. SYSTEMS

I WOODEN	TRANSMISSION SECTI Rated output voltage Input voltage for rated O I/P impedance Frequency response (+ Distortion Signal to Noise ratio	: 2.00\ D/P : 3 mV : 10K c 1/-3 dB) : 200H : <1% : Bette	/ rms across 240 ohms (+/-1 dB) ohms (typ.) Iz to 10KHz a 1KHz er than -60 dB eighted)
2. Page and cradle, it is on can only is signal is cted to the ole via the of receiving ternal horn on lights up ndset is off ndset gets' tch is held t to all the one is also uncement.	RECEIVING SECTION : Rated input voltage Rated output power Volume Control setting Volume Settings. 0 dB, -3 Frequency response (+ Distortion Signal to Noise ratio LF attenuation when sp filter is activated Temperature limited O/I	(Optional prov s : Interna dB, -6 dB, -12 dI 1/-3dB): 200H: : <1% (: Better eech : -12dB	al Taps provided for B settings. z to 12KHz @ 1KHz than -60 dB attenuation at 200Hz.
	Control signals : Call request send : Activ Protection: Output lines to external I communication channel circuit.	_S are short circ	uit protected. Also the
en pressed	The unit meets safety requirements as per IEC-65.		
feature for e channel).	ENVIRONMENTAL SPE Intended operating env controlled. Temperature range : Relative Humidity :		tdoor, not temperature : -10°C to +55°C : : -40°C to +70°C : <90% R.H. : <95%

D. D. Electronic Equipments Private Limited

DEALER'S ADDRESS:

TECHNICAL SPECIFICATION

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MECHANICAL SPECIFICATIONS

FLP ENCLOSURE

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IS Handset	:	Black

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When the handset is lifted off the cradle, it gets connected to the private channel and duplex communication is possible via the handset. During this mode the station is still capable of receiving signal on Page channel and reproducing it over the external horn LS. An indication lamp on the front cover of the station lights up whenever the private channel is busy. While the handset is off the cradle if the Page switch is pressed; the handset gets' connected to the Page channel-,(as long as the switch is held pressed) and paged announcement can be broadcast to all the stations connected to the system cable. An alert tone is also generated by the station to precede every paged announcement.

A Call/Mute switch provided on the front cover, when pressed serves two functions:

The external horn LS is muted (This is an useful feature for carrying out E undisturbed conversion over the private channel). A Call request signal is sent over the system cable.

ELECTRICAL SPECIFICATIONS

Power Supply :		
Rated supply voltage	:	240V
Current consumption	:	85 m/
	:	175 n
Optional provisions	:	Theu
TRANSMISSION SECTION	:	
Rated output voltage	:	2.00
Input voltage for rated O/P	:	3 mV
I/P impedance	:	10K c
Frequency response (+1/-3 dB)	:	200H
Distortion	:	<1%
Signal to Noise ratio	:	Bette
RECEIVING SECTION	:	
Rated input voltage	:	2.00
Rated output power	:	15 W
		(Opti
Volume Control settings	:	Inter
		Setti
		0 dB
Frequency response (+1/-3dB)	:	200F
Distortion	:	<1%
Signal to Noise ratio	:	Bette
LF attenuation when speech	:	-12d
filter is activated		
Temperature limited O/P power	:	20%
CONTROL SIGNALS :		

Call request send

PROTECTION:

Output lines to external LS are short circuit protected. Also the communication channel lines can withstand indefinite short circuit.

The unit meets safety requirements as per IEC-65.

ENVIRONMENTAL SPECIFICATIONS:

Intended operating environment		
Temperature range	:	
	:	
Relative Humidity	:	
•		
	•	

MECHANICAL DIMENSIONS 1.1 WIDTH x DEPTH x HEIGHT 225mm x 270mm x 345mm (+/-3mm)

/, 50 Hz (+/-10%) A (typ.) with Normal condition mA(typ) With Full load condition unit may be wired to operate from 240V/110Volts (50Hz)AC and 36V DC.

V rms across 240 ohms (+l-1 dB) ohms (typ.) Hz to 10KHz a 1KHz er than -60 dB(un weighted)

V rms via source res. 240 ohms in 8 ohms & 15 W in 16 Ohms. ional provided) nal Taps provided for Volume inas. , - 3dB, -6 dB, -12 dB settings. Hz to 12KHz @1KHz erthan -60 dB B attenuation at 200Hz.

of rated power

Active Low (L= 2.0V max, L= 001V min.)

Outdoor, not temperature controlled.					
:	-10°C to +55°C				
:	-40°C to +70°C				
:	<90% R.H.				
:	<95%				
	:				