

SMART

INDUSTRIAL SAFETY ANNOUNCEMENT SYSTEM (MODEL ISAS)

(CENTRAL AMPLIFIER DESIGN CONCEPT).

SMART INDUSTRIAL SAFETY ANNOUNCEMENT SYSTEM is Central Amplifier Design Concept and has unique feature of pre recorded voice paging announcements & LIVE voice paging announcements from S-MIC of DESK TOP unit to the loudspeakers present in the field locations.

The SMART INDUSTRIAL SAFETY ANNOUNCEMENT SYSTEM is designed to provide security announcements in plant areas where the ultimate reliability is required offering high traffic capability full autonomy and flexibility in architecture.

SMART INDUSTRIAL SAFETY ANNOUNCEMENT SYSTEM is essential for growing organizations because of its unique features, flexibility and compatibility.

SYSTEM INTEGRATION:-

19" CENTRAL EQUIPMENT RACK FITTED WITH :-

1. PAGING CONTROLLER UNIT(MODEL PCU):-
2. AMPLIFIERS(MODEL EXA PA 250):-
3. DESK TOP S-MIC STATION(MODEL DTSM-ISAS):-

And speakers & JB's are present in field locations :-

4. LMT BASED LOUDSPEAKERS(MODEL LSOD-XT) :-
5. JUNCTION BOX:-

OPERATION DETAILS:-

The PAGING CONTROLLER UNIT & AMPLIFIER UNIT is integrated in a main 19" central equipment rack & should be placed centrally, the desk top mic unit is placed in the control room from where the paging has to be initiated

MODE 1:-TO RELAY PRE RECORDED MESSAGES ONLY ONCE.

From the desk top s-mic station, Press the MESSAGE button the prerecorded message will be relayed to the loudspeakers of the LOCATION's only once.

MODE 2:-TO RELAY PRE RECORDED MESSAGES AFTER EVERY EQUAL INTERVAL.

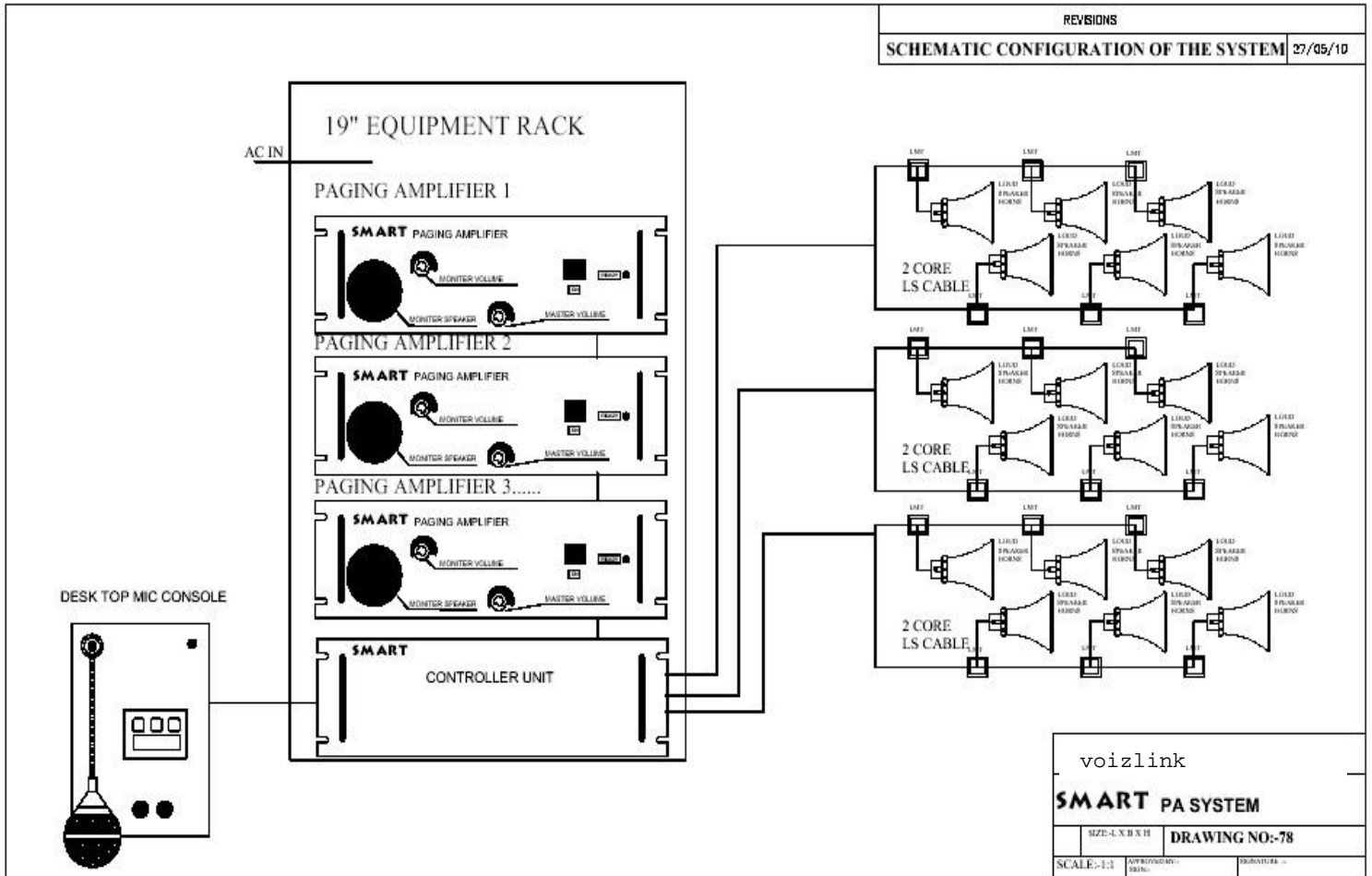
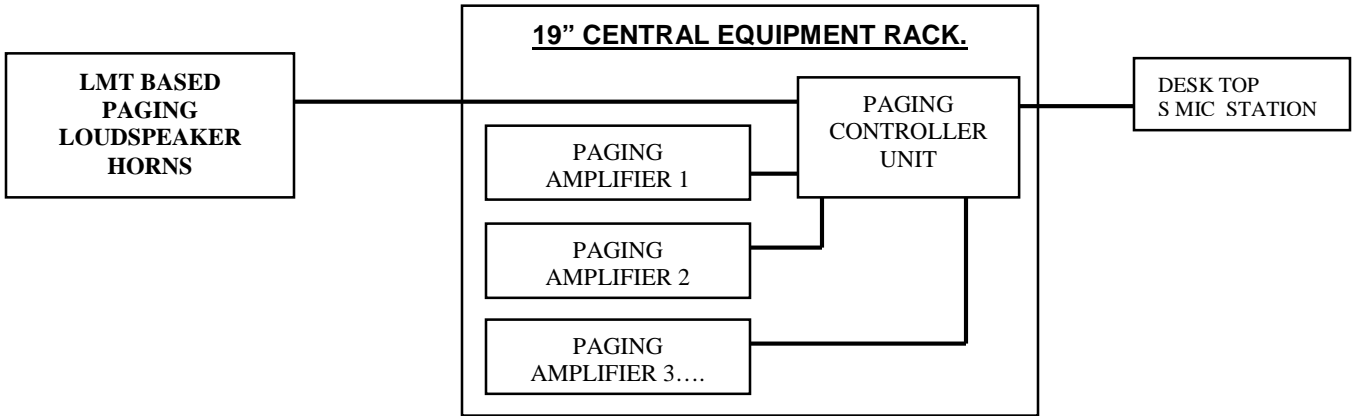
From the desk top s-mic station, Select the time slot as per requirement (60 min,120 min, 180 min,.....) press the MESSAGE button the prerecorded message will be relayed to the loudspeakers of the LOCATION's after every equal interval as per selected time slot.

MODE 3:-TO RELAY LIVE VOICE PAGING.

From the desk top s-mic station, Press the PTT button and make the necessary announcement from the S-Mic. The announcement will be heard over all the loudspeakers of the LOCATION.



SYSTEM BLOCK DIAGRAM



SYSTEM FEATURES:-

ELEGENTLY STYLED MAIN 19" CENTRAL EQUIPMENT RACK IS FITTED WITH

SMART PAGING CONTROLLER UNIT (MODEL PCU):-

- AMPLIFIER CONTROL.
- PAGING CONTROL.
- DESK TOP S-MIC STATION CONNECTIVITY
- PCU OPERATES ON 220 V /110 AC SUPPLY
- 19" RACK MOUNTED IN ARCHITECTURE

SMART PAGING AMPLIFIERS(MODEL EXA PA 250):-

- TYPE: SOLID STATE
- SHORT CIRCUIT & OVER LOAD PROTECTION PROVIDED
- POWER REQUIREMENT: 220 /110 V AC
- LMT BASED AMPLIFIERS
- 250 WATT RMS OUTPUT
- SUPPORTS UPTO 6 SPEAKER OF 8 OHMS 40 WATTS
- ON OFF SWITCH
- POWER INDICATIONS
- VOLUME CONTROLS (MASTER AND MONITOR)
- 19" RACK MOUNTED IN ARCHITECTURE

SMART DESK TOP S MIC STATION(MODEL DTSM-ISAS):-

- DESK TOP DESIGN
- S- MIC FOR DIRECT VOICE PAGING ANNOUNCEMENT
- CONNECTED WITH PCU
- WITH LCD DISPLAY UNIT
- TIMER SELECTIVITY
- DIRECT PRE RECORDER MESSAGE SELECITVITY

LMT BASED LOUD SPEAKERS & JB'S ARE PLACED IN THE FIELD.

LOUD SPEAKERS(MODEL LSOD-XT) :-

- WEATHER PROOF INDUSTRIAL LOUDSPEAKER
- PEAK POWER HANDLING CAPACITY: 60 WATTS
- ABS MATERIAL.
- INDOOR / OUT DOOR TYPE.
- IN BUILT LMT DESIGN

JUNCTION BOX (JB):-

- FOR LOOPING OF SPEAKER CABLES.
- ABS, WALL MOUNT TYPE DESIGN.
- IP55/65 CERTIFIED WEATHER PROOF DESIGN.
- WITH TERMINAL BLOCKS & KNOKOUTS

TECHNICAL SPECIFICATIONS

PAGING AMPLIFIER MODULE (MODEL EXA PA 250) :-

Electrical performance: -

Power Source	220 volts / 110 volts AC
Power consumption	300 Watts.
Amplifier output	250 Watts (RMS).
Horn Speakers	60 watts, 8 ohms X 10 nos

Electrical specifications: -

Output	100 Volt Audio line.
Isolation	1.5 KV between PRI & SEC for 15 Min.
Protection	Input fuse (5A fast blow).

Environmental: -

Temperature	0 to +60 C.
Humidity	0 to 95% Rh non-condensing.
Enclosure	19" rack mountable.

Mechanical: -

Body	18 SWG steel.
Dial	Aluminum powder coated.
SURFACE FINISH	POWDER COATED.
Net weight	12 kgs.
Standard mounting	RACK MOUNTED.

DESK TOP S MIC STATION (MODEL DTHS-ISAS): -

Electrical : -

Power consumption	< 3 Watts.
Insulation	600 v for 3 min between power source & SIGNAL line.
Mic	S MIC Noise canceling dynamic

Mechanical Specifications: -

Design	desk top type.
Weight	2 Kgs(approx).
Construction	18 gauge Powder Coated Steel Body.
Standard mounting	DESK TOP TYPE.

Environmental: -

Moisture Resistance	0 to 95% humidity with PCB conformal coated.
Temperature Range	0 to +60C.
Dust resistance	Dustproof enclosure.

LOUDSPEAKER HORN (MODEL LSOD) :-

Electrical performance: -

Audible range frequency response	300 – 3400 Hz.
Audio output max	107 dB @ 1 meter.
LMT	IN BUILT
Input	100 V Audio Line.

Electrical specifications: -

Coil resistance.	6 Ohm.
Coil impedance@ 1 Khz	8 Ohm.
Rated output watt RMS	60 Watts.
Sound level@ 30 watt RMS	70 dB.

Environmental: -

Temperature	0 to +60 C.
Humidity	0 to 95% Rh non-condensing.
Enclosure	Dustproof fully gasketed.

Mechanical: -

Body	ABS.
Dimensions	240 x 170 x 250 mm.
Net weight kgs	.8 KGS.
Standard mounting	‘C’ Clamp Type.

CABLING:-

a) AMPLIFIER UNIT TO SPEAKER

2 CORE 0.75 MM FLEXIBLE ARMoured CABLE, FROM AMPLIFIER UNIT TO LMT

b) POWER CABLE FOR 19” CENTRAL EQUIPMENT RACK FROM NEAREST POWER SOURCE

1.5 Sq MM 3 core, ATC, PVC insulated, FROM POWER SOURCE TO AC INPUT

c) SIGNAL CABLE FOR DESK TOP STATION TO CONTROLLER UNIT

WILL BE SUPPLIED ALONG WITH THE EQUIPMENT

INDUSTRIAL COMMUNICATIONS SIMPLIFIED .

Cables & Wireless Co.

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“(Specifications and description subjected to change without prior notice)”

SMART

OPERATOR CONSOLE (MCS-NONBLOCKING)MODEL DTSM-II

SMART OPERATOR CONSOLE is designed to be used with **SMART INDUSTRIAL PA COMMUNICATION SYSTEM (NON-BLOCKING)**. The operator station is digital desktop unit with S TYPE GOOSE NECK MIC for communication and is installed in the control room.



SMART CHOICE: -

- ALL CALL access switch
- Individual ZONE page call access switches.
- Volume controller pot.
- Noise canceling type S-type GOOSE NECK MIC for communication.
- CONNECT, RELEASE & FLASH BUTTONS.
- One-piece waterproof non-tactile Keypad for selective Calling.

OPERATIONS: -

The operation is very simple:-

- To make individual PA TELEPHONE PAGE CALL: -Press the connect button, dial the individual ACCESS CODE from the keypad of the OC after hearing the beep tone operator can make the paging announcement from the S-MIC.
- To make ZONE PAGE CALL: - Press the connect button, PRESS THE ZONE 1/ZONE 2/ZONE 3 / ZONE 4/ZONE 12 BUTTON from the keypad of the OC after hearing the beep tone operator can make the paging announcement from S-MIC, it is heard over all the on hook PA TELEPHONE loudspeakers of that ZONE.
- To make ALL PAGE CALL: -Press the connect button, Press ALL CALL BUTTON from the keypad of the OC after hearing the beep tone operator can make the paging announcement from S-MIC, it is heard over all the on hook PA TELEPHONE loudspeakers.

SPECIFICATIONS: -

Electrical Requirement: -

Power Source	220 VAC / 110 V AC (SWITCH ABLE).
Power consumption	< 15 Watts.
Amplifier	10 Watts (RMS).
Internal Speaker	3 Watts, 8 Ohms.
External Box Speaker (optional)	10 Watts, 8 Ohms.
Insulation	600 v for 3 min between power source & Telephone line.

Mechanical Specifications: -

Dimensions	270 X 275 X 90 (in mm).
Weight	5 Kgs.
Construction	16 gauge Powder Coated Steel Body.
Standard mounting	Vertical wall / panel.
Microphone	Noise canceling dynamic.

Environmental: -

Moisture Resistance	0 to 95% humidity with PCB conformal coated.
Temperature Range	0 to +60C.
Dust resistance	Fully weatherproof enclosure.

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SMART

OPERATOR CONSOLE (PAGE PRIVATE)MODEL DTSM-I

SMART OPERATOR CONSOLE is designed to be used with **SMART PAGE/PRIVATE SYSTEM**

It provides paging capability a very important plant communication function in one durable, easy-to-operate package. Through the page function individuals can be contacted anywhere in the plant from the control room. It has got integrated amplifier on a Single PCB for driving the internal speakers. It is connected in parallel loop with 3 core signal cable from **SMART PAGE/PRIVATE SYSTEM**.

Operation is simple: the user PRESSES the connect button, the set goes to paging mode. Speaking directly into the MIC, the user announces his page. The responding individual can communicate by lifting the handset (HANDSET TYPE)/by pressing the CONNECT BUTTON (VANDAL RESISTANT TYPE) and presses a PAGE CANCEL BUTTON to cancel the ongoing paging on other stations



SPECIFICATIONS: -

Electrical Requirement: -

Power Source	220 VAC / 110 V AC (SWITCH ABLE).
Power consumption	< 15 Watts.
Stand by consumption	< 1 Watts.
Amplifier	10 Watts (RMS).
Internal Speaker	3 Watts, 8 Ohms.
External Box Speaker (optional)	10 Watts, 8 Ohms.
Insulation	600 v for 3 min between power source & Parallel line.

Mechanical Specifications: -

Weight	.600 Kgs.
Construction	16 gauge Powder Coated Steel Body.
Standard mounting	Desk top.
Microphone	Noise canceling dynamic.

Environmental: -

Moisture Resistance	0 to 95% humidity with PCB conformal coated.
Temperature Range	0 to +60C.
Dust resistance	Fully weatherproof enclosure.

INDUSTRIAL COMMUNICATIONS SIMPLIFIED .

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