

SMART

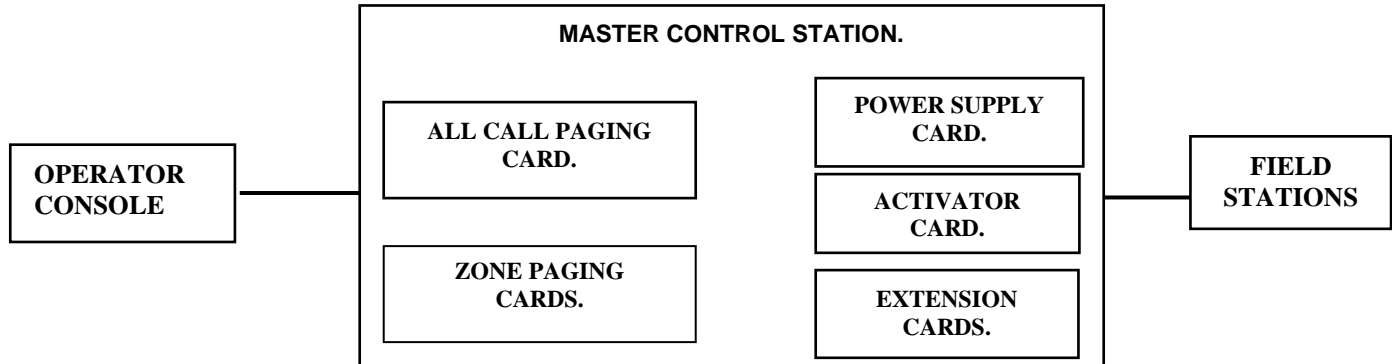
PA SYSTEM. MODEL MCS-V

(BLOCKING TYPE).

SMART INDUSTRIAL PA SYSTEM provides communication in industrial environments and hazardous locations where reliability and ease of operation are of utmost importance. Individuals can be paged from any station and two or more persons can communicate on any available line. It is essential for growing organizations because of its unique features, flexibility and compatibility



System configuration.



SMART INDUSTRIAL PA COMMUNICATION SYSTEM consists of two modules:-

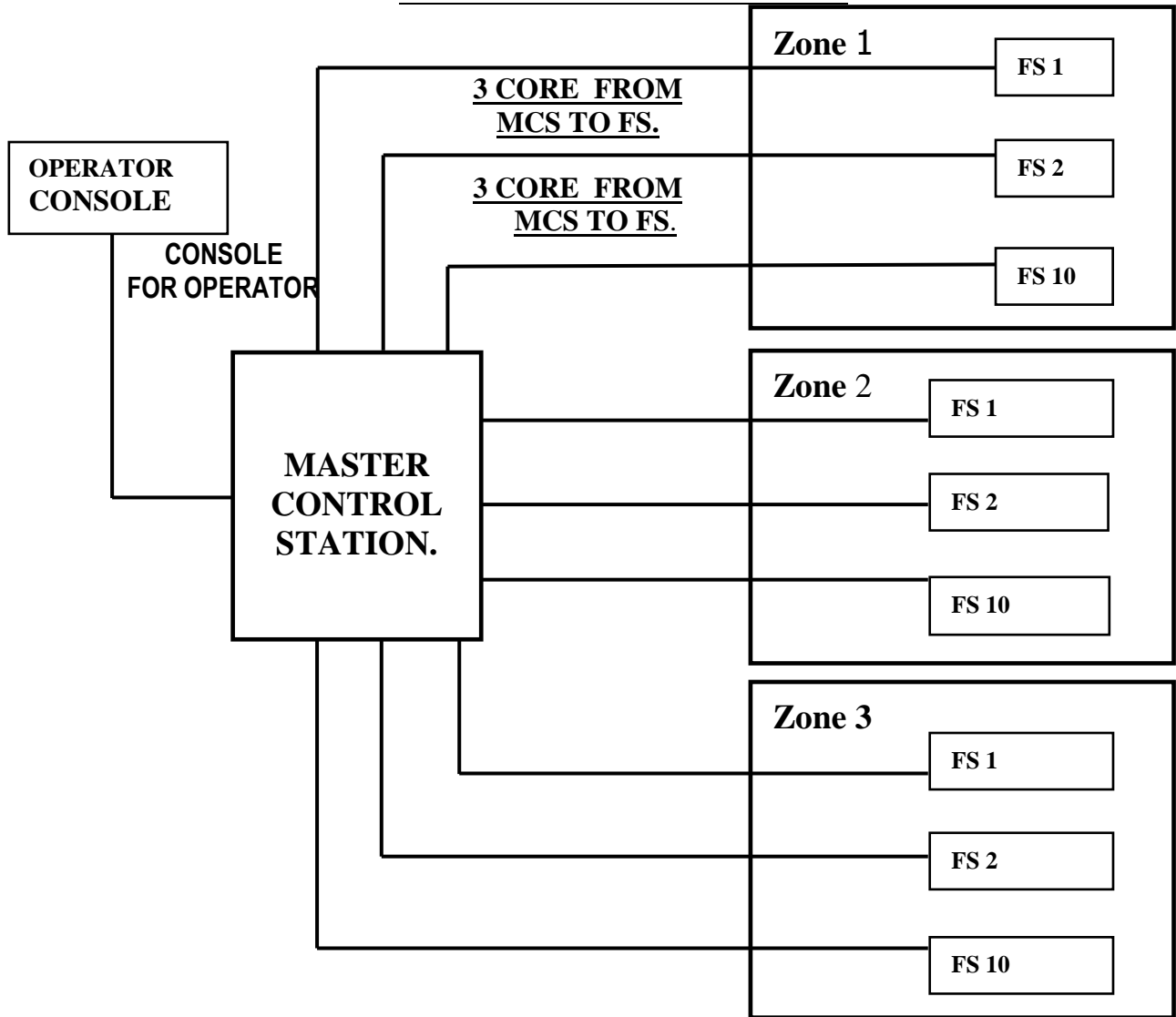
MASTER CONTROL STATION (MCS): -

- Indoor wall mountable type/desk top type
- Consists of all call-paging card.
- Zone call paging card.
- Extension cards.
- Power supply card.
- Activator card.
- Connectivity to field stations.
- Connectivity to each zone.
- User defined zones.

FIELD STATION (FS): -

- Individual amplifier based.
- 16- Gauge enclosure with powder coat finish.
- Heavy industrial handset, mechanically noise-canceling type.
- A one piece, waterproof membrane keypad for extended life with feather touch buttons.
- A magnetic reed hook-switch reduces moving parts subject.
- Pilfer proof type stations for destructive areas.

SMART INDUSTRIAL PA COMMUNICATION SYSTEM
USER DESIGN BLOCK DIAGRAM.



FEATURES: -

- Master Controlled system.
- Reduced cabling from **FS** to **MCS** installed.
- Individual and all party page channels.
- Communications between field operators and control room operator.
- Direct communication:- between the field stations with the assistance of operator.
- Individual zone selection and all zone (all-call) selection switch in operator console.
- No limitation for the number of FS in each zone.
- Highest priority for all-call paging.
- No need to press any button to receive a call just lift handset of the field station and talk.
- Fault finding very easy as no multiple speakers spread over an area to search.
- Replacement is very simple: - just replace the card of faulty FS or remove it from the network.
- More than one speaker's can be connected to a field station by using **SMART EXTERNAL AMPLIFIERS.**

OPERATION: -

- **MASTER TO INDIVIDUAL FIELD STATION:**

Master presses corresponding field station selector button, selected station LED RED & GREEN on the SELECTOR & INDICATOR panel of MCS lights up. The announcement is made from the MIC of the operator console; the same is announced over the loudspeakers of the selected field station. The person in the field acknowledges by lifting the handset. The selector switch is resetted on the SELECTOR & INDICATOR panel of MCS to end the communication. In case the operator forgets to reset the switch the green LED remains on.

- **MASTER TO ZONE I (PAGING CALL)**

Master presses zone I selector button from the operator console and speaks on the MIC. Announcement is made over all selected zone field station loudspeakers. If someone responds from the field station the communication will be heard over ALL the loudspeakers of all the field stations of the zone I.

- **MASTER TO ZONE II (PAGING CALL)**

Master presses zone II selector button from the operator console and speaks on the mic. Announcement is made over all selected zone field station loudspeakers. If someone responds from the field station the communication will be heard over all the loudspeakers of all the field stations of the zone II

- **MASTER TO ALL STATION CALL (PAGING IN BOTH THE ZONES)**

Master presses all call assigned button on the operator console of MCS, on connection speaks, the announcement will be heard over all the loudspeakers of all the field stations in both the zones viz:-ZONE I & ZONE II.

- **MASTER PRIORITY PAGING:**

Master can contact any zone/all zone/field station even if it is in communication with any other party.

- **FIELD STATION TO MASTER:**

Field operator lifts the hand set, master gets incoming call indication on the display with glowing RED LED of corresponding field station on the SELECTOR & INDICATOR PANEL with a continuous beep till acknowledged .By pressing the SELECTOR switch button Master establishes communication with the field station giving a GREEN LED indication on the INDICATOR panel showing the connection status. By releasing the SELECTOR switch button master ends the communication with the field station.

- **FIELD STATION TO FIELD STATION OF SAME ZONE (THRO MASTER):**

Field station 1 of zone I gets connected by lifting the handset, on connection expresses desire to get connected to field station 2 of zone I. Master presses field station SELECTOR SWITCH button of field station 2, on pickup connects them through patching. He may or may not communicate with the on-going communication by turning ON/OFF his MIC from operator console.

- **FIELD STATION TO FIELD STATION OF DIFFERENT ZONE (THRO MASTER):**

Field station 1 of zone I gets connected by lifting the handset; on connection expresses desire to get connected to field station 1 of zone II. Master presses field station SELECTOR SWITCH button of field station 1 of zone II, on pickup connects them through patching. He may or may not communicate with the ongoing communication by turning ON/OFF his MIC from operator console.

STYLING: -

AMPLIFIER: -

- As the plant communication system is based on Distributed amplifier design, there is no dependency on single or standby amplifier, thus in case a set fails it can be replaced or removed. Due to stand-alone FS complete plant communication failure is negated.
- Planning and maintenance is made easy because of easy in locating the fault. The various parts of the system can be checked separately and the system can be more easily maintained. Thus ensures minimum down time and quick fault location & rectification.

CABLING: -

- The Master Control Station location is very flexible. It is suggested to be installed near the control room. 3 core cable from each field station to the Master Control Station is required.
- The Operator Console should be installed in the control room. All the signal wires coming from individual field stations of each zones through the field MDF's are terminated in to incoming port of the Master Control Station.

CAPACITY: -

- The SMART PCS can be configured and designed as per the user, to meet the present and future requirements.

EXPANDABILITY: -

- As the system is modular in architecture, expansion can be carried out any time to respond immediately to the changing requirements and growth.

FIELD EQUIPMENT: -

- The field equipment is rugged, elegant and weatherproof type. The equipment is constructed from MS and is properly designed to meet the harshest of industrial environment. The units are rugged, robust in construction, corrosion resistant and are least susceptible to hostile environmental conditions like dust, water, high ambient noise, high temperatures etc.

INDUSTRIAL COMMUNICATIONS SIMPLIFIED.

cables & wireless co.

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