

# Installation and User's Guide

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# Model TSC-1005C Internal mic



# Model TSC-1005CM 13" Flex mic



Designed to suit such applications as service stations, C-stores, truck stops, and fast-food restaurants.

# **Features**

- 5 station / speaker capability with call
  - Individual station selector switches
- Separate "Talk out" and "Listen" volume controls
  - External Input Capability
  - Durable ABS Plastic Case
  - Size 7.06"D x 3.38"H x 8.00"W
    - Weight 3 lbs. 2 oz.
  - Output Power 5 watts "talk" channel
    - 2.5 watts "listen" channel
- Power requirements 14VAC @ 20VA Provided by a 120VAC 60 Hz
  - UL Listed wall mount transformer





# **Important Safety Information**

#### **Know Your Environment**

Working at a fueling station can present many dangers. It is a potentially dangerous environment of electricity, flammable fuels, vapors, and interactions with the general public. Only trained and knowledgeable individuals should perform service on the equipment. It is important to your safety and the safety of others to follow proper procedures.

# **Emergency Shut Off (ESO)**

Know how to turn OFF power to all the fueling equipment by locating the ESO switch and circuit breakers. You must know how to shut off all fuel flow and electricity in an emergency.

# Follow the Regulations

Information is available at Occupational Safety and Hazard Association (OSHA), National Fire Protection Association (NFPA) 30A; Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 70; National Electrical Code (NEC), as well as other national, state and local entities. All applicable codes must be followed to maintain safe installation, service, use and operation of the equipment.

# LOTO (Lockout/Tagout)

Always make sure ALL power to the dispenser is turned OFF before servicing the dispenser. Follow OSHA Standard 29 CFR 1910.147 The Control of Hazardous Energy (Lockout/Tagout).

# No Sparks - No Smoking

Sparks from power tools, burning cigarettes, static electricity, vehicles and other sources can ignite fuels and their vapors. Ensure that you use safe and established practices while working with electrical devices and equipment.

# **Wear Proper PPE**

Check with your company, customers and the job/site specifics to determine what types of personal protective equipment are appropriate. Always wear the proper PPE to prevent injuries and save lives.

#### **Barricade Your Work Area**

One of the dangers of working at an active retail fueling station is the potential impact of customers and the general public. It is important to properly establish your work area by barricading, to reduce the potential of vehicles or customers from entering the work area. The use of barricades is both for the protection of workers and protection of the general public/customers.

#### Read the Manual(s)

Knowledge of all related manufacturer procedures, manuals and documents is important. Follow the Recommended Practices of The American Petroleum Institute (API). Understand the specific procedures before starting work. If you do not understand a procedure, call Freedom Electronics at 770-792-8888.

# **Notify Site**

On arrival identify yourself to the site manager and inform them of the work you will be performing.





# **Applicable Parts**



Part# FE-216-0008 Speaker, 3.25"



Part# FE-SPK-1009 Speaker Box



Part# FE-SPK-1001 Deluxe Horn Speaker



Part# 204-0070 Power Supply



Part# FE-SPK-1005 Call Switch



Part# FE-SPK-1003 Speaker Box with Call Switch



Part# FE-SPK-1002 Economy Horn Speaker



Part# FE-SPK-1010
Impedance Matching Transformer
Required for external inputs





# **Operations**

#### VOLUME CONTROL / ON-OFF SWITCH:

Located on the left side of the intercom. Turn on by rotating the knob clockwise (POWER ON lamp will illuminate red). Continue rotating clockwise to increase volume.

# TALK / LISTEN SWITCH:

Located on the right side of the intercom, depress to "talk" (or operate alarm on Model TSC-1005CA only), release to "listen".

#### STATION SELECTOR SWITCHES:

Located to the left of the TALK switch. To select station, depress switch with corresponding station number. More than one station can be selected at the same time by depressing corresponding station switches simultaneously. To deselect stations, depress any unselected station switch halfway.

#### CALL-IN FEATURE:

Connections located on bottom of intercom. The CALL-IN feature enables the customer to alert the operator with a beeping tone by depressing a remote mounted CALL-IN button.

#### STANDBY:

When all 5 stations are deselected, the intercom is in a silent "standby" mode.

#### EXTERNAL INPUT:

Connections located on bottom of intercom. The external input feature enables the intercom to route a message repeater or music to any deselected speaker stations. When a speaker station is selected the external signal is disconnected from that speaker station.

\* The Impedance Matching Transformer is required and sold separately, see page 8.

# VOLUME CONTROL: (Talk out):

Located inside of the intercom, adjustment is made from the bottom of the unit. This adjustment will increase (counterclockwise) or decrease (clockwise) the outside speaker volume.

ALARM SWITCH: The alarm models have been discontinued, TSC-1005CA and TSC-1005CAM.

The following information is for legacy users only. Located on the rear of the intercom. Operation of the alarm can be obtained by pressing the TALK/LISTEN and the ALARM buttons at the same time. The alarm will be broadcast over the remote speakers that have been selected. A rising and falling police type alarm can be simulated by holding the TALK/LISTEN button down and pressing and releasing the ALARM button.





# Installation

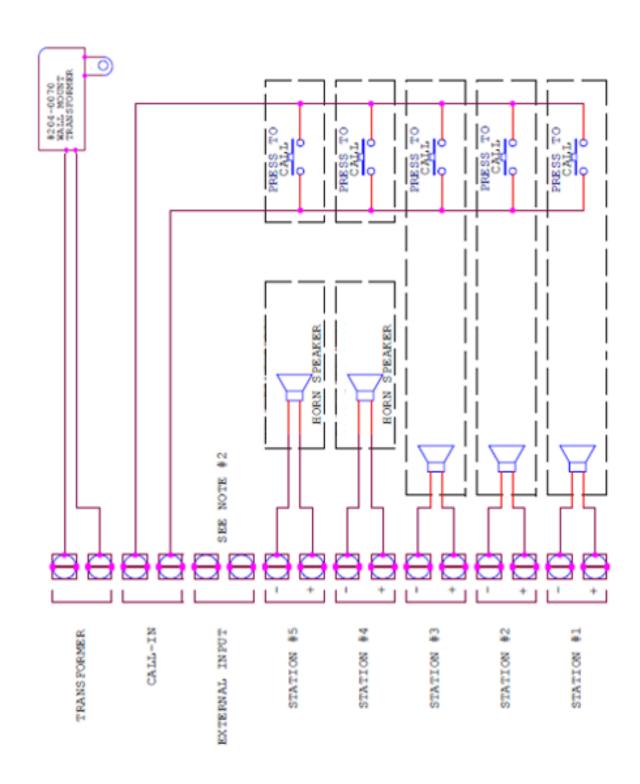
- 1) Mount the speakers and call switches according to their installation and application guides.
- 2) Run an appropriate length of wire from each remote speaker and call switch to the area the intercom will be located (label the wire ends to avoid confusion).
- 3) Connect the remote speakers to the appropriate STATION # on the intercom.
- Connect all the call switches together to the terminals marked CALL-IN on the intercom.
- After completing installation, secure the wires to bundle platform attached to intercom.
- Plug the power supply into a dedicated, grounded 120VAC outlet and plug into the intercom.
- 7) Power on the intercom and check operation of all connected speakers and call switches.
- 8) Adjust the outside speaker volume (located under intercom) accordingly.
  - Speakers mounted in close proximity of the intercom may result in a howl (acoustical feedback)
    when either one calls the other. This condition can be corrected by lowering volume or
    repositioning Sub-station speaker.

# Wiring Specifications

- All speaker/call wires must be shielded 18-22 gauge twisted-pair.
- Shield wires should be attached to the shield/ground connections at the Intercom only.
- All speaker cables must route through a conduit that is SEPARATE from those containing 120VAC power wiring.



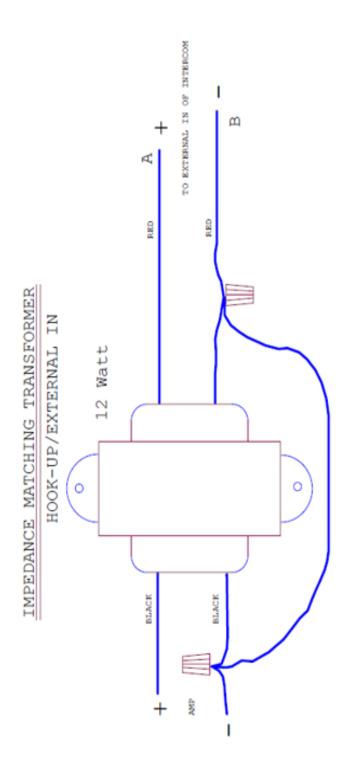








# External Input



The Impedance Matching Transformer is required for External Inputs.

+ and – are from the external device (amp).

Points A and B are connected to the terminal strip under the intercom unit.

