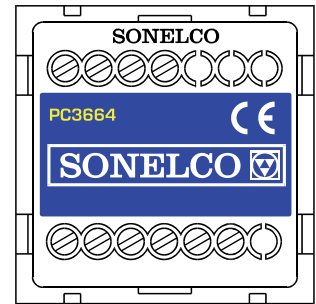
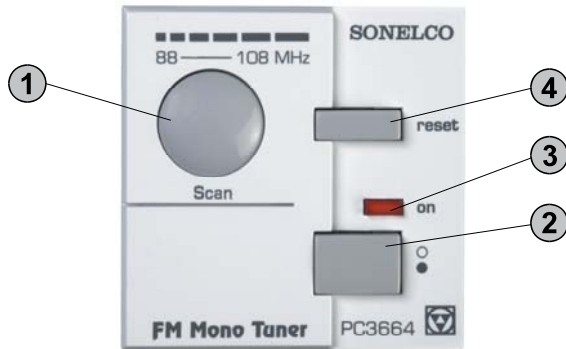
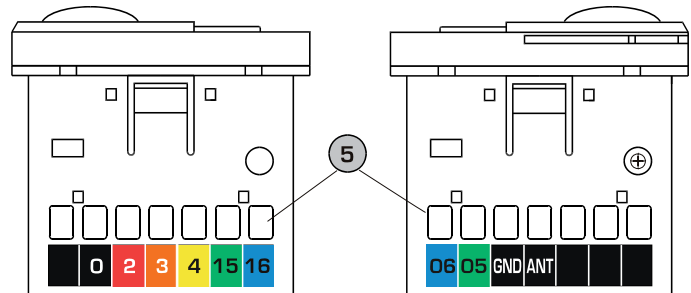


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FM MONO TUNER - PC3664



- 1- Station search pushbutton –scan-
- 2- On/off pushbutton
- 3- On/off indicator light
- 4.- Reset pushbutton (tuning reset at start of FM band)
- 5.- Connection strips



DESCRIPTION

Mono FM tuner compatible with all other modules in the Prestige Line range. It can be used next to a main unit adding one channel, as an audio unit for the whole system, or associated with a control as a local sound source.

It has an On/Off pushbutton (2) and local Scan (1) for tuning stations. It has remote "scan" for changing channels from the tuner itself (change of stations from any other system control.)

GENERAL CHARACTERISTICS

- Electronic switch with on/off pushbutton (2).
- LED type operation indicator light (3)
- Station tuning with local scan pushbutton (1).
- Reset pushbutton (4) for resetting tuning at start of the band.
- Connection through strip (5), including input for outside antenna.
- Automatic signal selection, activated when unit is switched on, between the external signal applied to terminals 5-6 and the signal from the tuner.
- Tuning memory (If the electricity supply is not cut off, when it is switched on the last station that was being listened to before the system was switched off, will appear).
- Remote scan

CONNECTION

Before proceeding to connect the unit, make sure that the system power supply unit is switched off. Insert the control in the base plate and make the connection following these directions:

TERMINALS:

- 0 - Input for remote scan wire
- 2 - Input + Supply 16 V DC
- 3 - Input + 16V auxiliary
- 4 - Ground.
- 15 - Audio input (left channel in stereo system)
- 16 - Audio input (right channel in stereo system)
- 05 - Audio output (left channel in stereo system)
- 06 - Audio output (right channel in stereo system)
- GND - Antenna ground
- ANT - Antenna

Note: Given the FM reception characteristics, to be able to tune the stations correctly, there must be a good antenna signal. The tuner includes two terminal strips (ANT, M) for rear connection of the outside antenna for FM, (cable from RF distribution)

NOTE: The system wiring must be installed separately from the electricity supply mains, according to regulations

OPERATION

Apply the "on/off" pushbutton (2) and start the tuner up. The "on" led (3) will come on and an automatic selection will occur, so that the audio signal of the station tuned will appear in the tuner output terminals (05 and 06).

Station tuning

To search for a station, briefly depress the "scan" pushbutton (1). When a station is found, the search will stop. If this is not the desired station, depress "scan" (1) again. In this way it will explore the whole FM band. When reaching the end of the band, no more stations will be tuned. To restart the search from the start of the FM band, depress the "reset" key (4). Depress "scan" again until the desired station is tuned. When the tuner is switched off ("on/off" pushbutton) the channel from the main unit will appear. The last stations tuned will be memorised although we switch the tuner and the control off, to preserve this memory, the main unit must remain in operation.

Tuning stations (Remote scan)

If you wish to change stations from a control situated in another room, lightly press the "scan" pushbutton on the control. The automatic search will begin until a station is found. If this is not the desired station, press "scan" again. When the end of the band is reached, no more stations will be tuned. To start the search again from the start of the FM band, keep the "scan" key of the control depressed for a few seconds. Press "scan" again until the desired station is tuned.

TECHNICAL CHARACTERISTICS

- Supply: 16VDC
- Nominal supply input for terminal (3): 16V
- Maximum consumption: 40 mA
- Maximum consumption on "off" position: 15 mA
- Reception frequency: 87.5 – 108 MHz
- Input sensitivity: 6 mV
- Tuning type: Digital FLL
- Nominal audio output (Term. 05,06): 3V. RMS maximum
- Minimum load impedance (Term. 05,06): 600 Ohm
- Dimensions: 74x40x25 mm.
- Weight: 40 grams

INSTALLATION EXAMPLES

1. Connection of the tuner as a local audio unit

The diagram shows the connection of the tuner associated with a control, in a one stereo channel system. The control used in this case is the PC1220, although it could be any other.

This enables us to add a radio channel to those available in the control. With one-channel controls, we can have two audio units. In the enclosed diagram, firstly we have to switch the main unit on with the "power" switch; then on activating the PC 1220 control, the sound unit associated with the main unit will start up. We will hear this signal when the tuner is off, because we will have the audio signal from the main unit in the output terminals of the tuner (05 and 06). When the tuner is switched on, the signal of the main unit automatically changes over to the signal of the tuner, listening to the tuned station.

1 centralised stereo channel (for the whole system) 1 tuner as a local audio channel (monophonic)

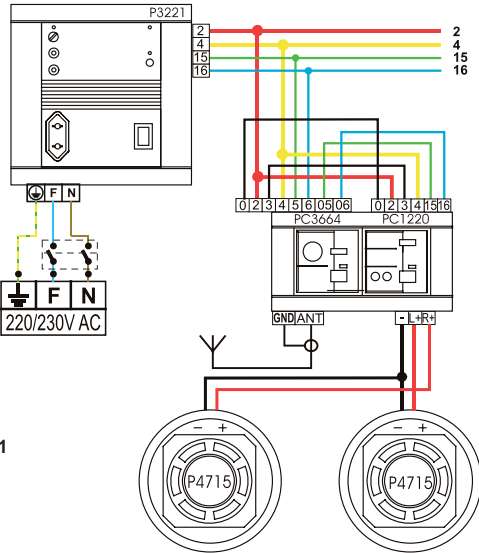


Diagram 1

2 - Connection of the tuner as a centralised audio unit

We refer to a "centralised" sound unit when this (the tuner in this case) is used in the whole system. Below we offer 2 examples of centralised installation

2.1 - 1 monophonic channel

In this case we use a power supply unit P3260 and the tuner PC3664 as an audio unit. Any type of controls can be installed in the zones, having used model PC1105 in this case.

Firstly start up the power supply unit, with the power switch. Then the tuner with the "on/off" pushbutton.

The search for stations will be carried out with the "scan" pushbutton (1). If you wish to hear the stations when tuning them, a control with its relative speakers must be installed together with the unit and the tuner.

Remote Scan.

If you wish to have remote scan, terminal 01 must be connected in all those controls where you want to have remote scan. (See diagram 2-1)

Note

As shown in diagram 2, terminals 2 and 3 of the tuner must be bridged. The wire corresponding to terminal 6, indicated with dotted lines, is optional.

In all the controls that have Mono/Stereo selector switch

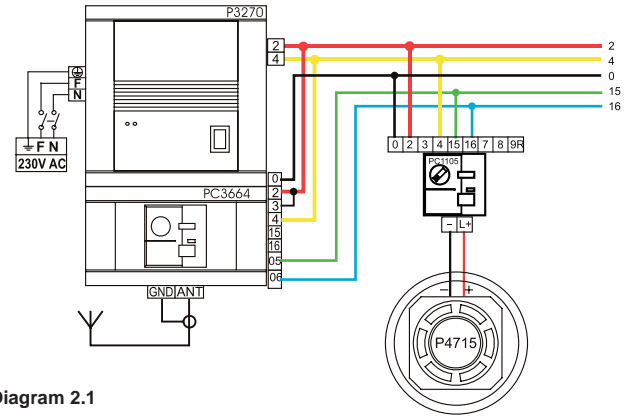


Diagram 2.1

2.2 - 1 stereo channel (with outside audio unit or 1 monophonic channel (tuner) + monitoring of the signal

Diagram 2.2 shows the connection for this type of normal system in commercial premises.

As in the case of diagram 1, the main unit must be switched on first, then the control and afterwards the tuner.

The audio outputs of the outside unit (music system, tape recorder, etc.) will be connected to the CINCH inputs of the main unit and terminals 15 and 16 will be connected to terminals 5 and 6 of the tuner.

When the tuner is on, its signal will be heard in the whole system. When it is switched off, its signal will automatically change over to that of the external audio unit.

It is important to point out that the tuner can change from one external stereo signal to its own signal (monophonic). This signal (stereo or mono) comes out to the control through terminals 05 and 06; the control adjusts it and sends it through terminals I - D to the system amplifier or amplifiers.

Monitoring stations

To select the desired station, preventing the others from being heard in the rest of the system, during the tuning process, we will use the earphone output of control PC1120. (See diagram 2.2).

We will carry out the monitoring through these earphones, without the signal being heard in the whole system whilst the jack is connected.

When disconnecting it, the signal will come out to the whole system..

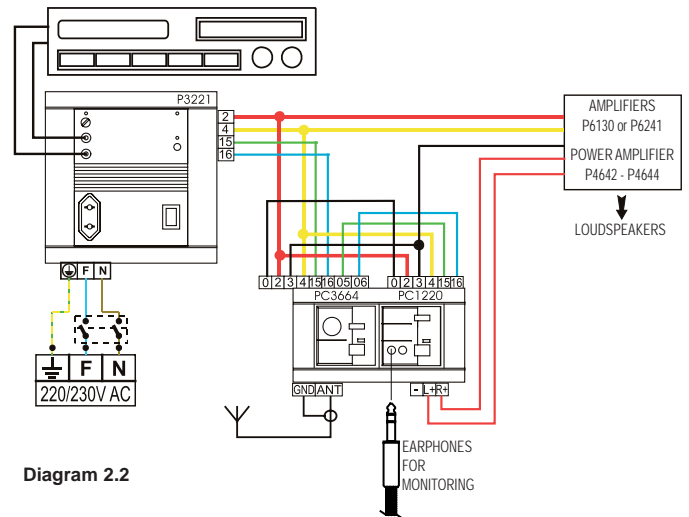


Diagram 2.2

To connect the amplifiers or power amplifiers see document "Basic installation diagrams" of Sonelco and the specific product Sheets.



INSTALLATION RECOMMENDATIONS

In Sonelco's General Diagrams, you will find connection diagrams and recommended cable sections for the audio installation. Do not place this product in damp places, near heat sources or potentially explosive atmospheres.

Sonelco recommends installing a specific general power switch for the sound system (See installation example).

Sonelco declines any responsibility that may be derived from an inadequate use of the product or system not conforming with that recommended.