Pro Intercom LLC ©

Intercom for Sound, Lighting and Production Professionals

electronics
made in USA

Instructions

RSM300
Remote Sub-Master Station
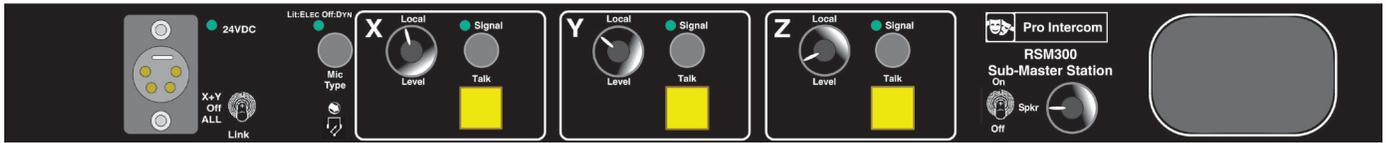
The RSM300 provides specialty groups within the technical staff their own sub-networks. Meanwhile the group directors remain in communications with the director/producer at the Master Station.

The RSM300 has three circuits. It is assumed that Circuit X will be connected to one of the circuits of the system's Master Station, probably A. This connection is made just like any other outstation, with 2-conductor shielded microphone cable terminated in 3-pin XLR connectors. This connection will put the RSM in communications with the Master Station and will power up the RSM. The RSM operator will also now be in contact with any other stations that have been connected to the same circuit on the MS301.

A classic example is lighting, where the lighting director would have an RSM300 with Circuit X connected to circuit A on the MS301 Master Station while the Y-circuit is connected to specialty lighting or effects stations and the Z-circuit is connected to the follow-spot operators. The operator now has communications with 3 different groups, all independent of one another. None can hear the others, unless linking switch is used. Only the circuits on which the Talk button has been activated will hear the operator. *The circuit of the RSM300 which is connected to the MS301 must have its termination DIP switch in the Out position since the MS301 is already providing the termination circuit. The other two remain In so that the RSM300 provides the termination circuits for the two new circuits that are being created.*

The RSM300 can be used with a headset or handset. If far enough away from the stations to which the operator is talking, and the noise level is not excessive, a noise-canceling, close-talking gooseneck microphone can be plugged into the front panel and used with the built-in speaker for hands free two-way communications. See 'Sidetone'' below.

The 'Talk' buttons are either momentary (press and hold) or latching (tap once, tap again to shut off). The audio level at which each circuit is heard locally is individually adjustable.

A bright yellow signal LED is provided for each circuit. Pressing the signal button lights the signal lamps on the other stations connected to the same circuit. The speaker can be turned off and its level adjusted.

Both dynamic and electret microphones can be used, either as part of a headset or as gooseneck mic. The selector button is marked 'Mic Type' and an LED announces the status.

The smallest control on the front panel could be the most useful. It is marked with a symbol ⤵ which indicates 'Sidetone', the sound of your voice coming to your earphone from your microphone. With the RSM300 this control can be used to adjust your volume in your headset, or lower the level of your voice coming from the speaker, thus making hands-free use possible. The control only affects local levels, not what others hear.

If the system has a program feed and the RSM300's X-circuit is connected to a circuit on the MS301 which has the program on it, the RSM300 operators will hear it on the X-circuit. It cannot be passed along to circuits Y and Z.

A second application for an RSM300 is to connect each of its circuits to one of the MS301 circuits. Now you have created a second position where the operator can communicate with the same groups as the original Master Station. The RSM300 cannot manage the distribution of Program Audio the way an MS301 does. Any circuit on the RSM300 that is connected to an MS301 circuit which has Program Audio on it will get the Program Audio. This sub-master position with limited control can be replicated any number of times in a system, but because it contains a speaker and amplifier, it consumes a substantial amount of current. Connect each of its circuits to the corresponding circuit on the MS301: X to A, Y to B and Z to C. *When the RSM300 is connected in this manner, all the termination DIP switches on it should be in the Out position since the MS301 is already providing all the termination circuits.*