

# U891Rx / U891RWx / U891RCx **unipoint**

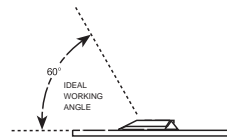
## CARDIOID CONDENSER BOUNDARY MICROPHONE WITH SWITCH (U891RCx - WITH LOCAL OR REMOTE SWITCHING)



- Designed for surface-mount applications such as high-quality sound reinforcement, conferencing, distance learning and other demanding sound pickup situations.
- Ultra-quiet electronic switch can be set to any of three operating modes; "touch-on/touch-off", "touch-to-talk" and "touch-to-mute".
- External contact closure capability permits control of remote devices from microphone switch. - (U891RCx)
- External LED control allows for accurate depiction of the live status. - (U891RCx)

- PivotPoint™ rotating output connector allows cable to exit from either the rear or the bottom of the microphone.
- Small-diameter UniPoint capsule near boundary eliminates phase distortion and delivers clear, high-output performance.
- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI).
- Heavy die-cast case and non-slip silicon foam bottom pads minimize coupling of surface vibration to the microphone.
- Low-profile design with low-reflectance finish for minimum visibility.
- Available in two colors: black (U891Rx/U891RCx) and white (U891RWx)

The microphone requires 11V to 52V DC phantom power for operation. And supplied as a cardioid and accepts interchangeable elements to permit selection of angle of acceptance from 100° to 360°.



The microphone should be placed on a flat, unobstructed mounting surface, with the front of the microphone facing the sound source. The sound source should not be below, or higher than 60° above, the plane of the mounting surface.

Output from the microphone is low impedance (Lo-Z) balanced. For U891Rx and U891RWx, the signal appears across Pins 2 and 3; Pin 1 is ground (shield) in XLRM-type output connector. Output phase is "Pin 2 hot" - positive acoustic pressure produces positive voltage at Pin 2.

At integral 80 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 43°C for extended periods. Extremely high humidity should also be avoided.

For U891RCx applications that require the microphone to remain active or always "on", regardless of the touch switch setting, a "Local/Remote/LED Remote" control function is provided.

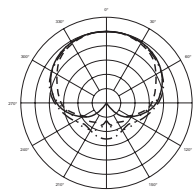
- when the CONTROL switch is in "Local" position, the touch switch controls the microphone's audio output, LED status and contact closure internally.
- when the CONTROL switch is in the "Remote" position, the microphone's audio output remains active or "on" all the time. The touch switch controls only the LED and contact closure.
- when the CONTROL switch is in the "LED Remote" position, it allows remote control of the LED, for accurate depiction of the microphone live status. The LED will remain "on" when driven logic high or open, and "off" when driven logic low or connected to ground. The microphone's audio output remains active or "on" all the time, and the contact closure follows the configuration of the touch switch.

For wire color - audio : thick black - shield  
yellow - hot(+)  
red - cold(-)  
control : slim black - ground  
blue - external contact  
white - LED remote

### SPECIFICATIONS

|                                   |  |
|-----------------------------------|--|
| ELEMENT                           | Fixed-charge back plate permanently polarized condenser  |
| POLAR PATTERN                     | Half-cardioid  |
| FREQUENCY RESPONSE                | 30-20,000 Hz   |
| LOW FREQUENCY ROLL-OFF            | 80 Hz, 18 dB/octave  |
| OPEN CIRCUIT SENSITIVITY          | -34 dB (19.9 mV) re 1V at 1 Pa   |
| IMPEDANCE                         | 200 ohms   |
| MAXIMUM INPUT SOUND LEVEL         | 130 dB SPL, 1 kHz at 1% T.H.D.   |
| DYNAMIC RANGE (TYPICAL)           | 104 dB, 1 kHz at Max SPL   |
| SIGNAL-TO-NOISE RATIO             | 68 dB, 1 kHz at 1 Pa   |
| PHANTOM POWER REQUIREMENTS        | 11-52V DC, 4 mA typical  |
| SWITCH                            | Touch-sensitive control: on/off; Switch function: touch on/off, momentary on, momentary off; (Control: local, remote, LED remote - U891RCx only)<br>Flat, roll-off             |
| WEIGHT                            | U891Rx / U891RCx 264 g / 266 g   |
| DIMENSIONS                        | 108 mm - long,<br>84 mm - maximum width,<br>23 mm - height   |
| OUTPUT CONNECTOR                  | TB3M-type / TB5M-type  |
| CABLE                             | 7.6m long, 3.2mm diameter, (2-conductor shielded cable with TA3F / XLRM-type connector for U891Rx) (5-conductor shielded cable with TA5F-type connector / pigtail for U891RCx) |
| OPTIONAL INTERCHANGEABLE ELEMENTS | UE-C cardioid (120°)<br>UE-H hypercardioid (100°)<br>UE-O omnidirectional (360°)   |
| ACCESSORIES FURNISHED             | Soft protective pouch  |

Frequency Response



200 Hz ———  
1 kHz ———  
5 kHz ———  
8 kHz - - - - -

### U891Rx/RWx, and U891RCx CONTROL Switch in "Local" Position

| SW Setting   | Microphone Audio               | LED                            | External Contact Closure       |
|--------------|--------------------------------|--------------------------------|--------------------------------|
| TOUCH ON/OFF | Follows touch-sensitive switch | Follows touch-sensitive switch | Follows touch-sensitive switch |
| MOM. ON      | "On" when switch is pressed    | "On" when switch is pressed    | Closed when switch is pressed  |
| MOM. OFF     | "Off" when switch is pressed   | "Off" when switch is pressed   | Open when switch is pressed    |

