norcon communicationsគ



Norcon TTU® -1X Series Installation & Operating Instructions

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Installation Instructions:

Remove the four (4) 6-32 assembly screws.

Separate the housing and electronics assembly. Unplug electronic assembly from the faceplate and housing.

Set the electronic assembly aside, carefully

Remove the four (4) 8-32 mounting nuts from the mounting rods. Separate the faceplate and housing. Discard the shipping spacers located between the faceplate and housing if there are any. Hold the faceplate over the partition opening. Carefully center the faceplate and align the lettering horizontally. Masking tape can be used to temporarily hold the faceplate to the outside of the partition.

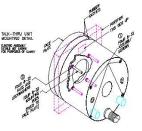
On the inside of the partition mount the housing over the four (4) 8-32 mounting rods. Be certain to position the housing so that the threaded hole is positioned properly. If using tubing, orient the hole in the direction which the tubing is to exit (left, right, top, and bottom). If tubing is not being used, place the plugged hole at the bottom.

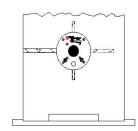
Recommended cables for wiring:

For power connections use West Penn wire #221. This is a stranded single pair 22 awg, Plenecon -II jacket Rohs cable. Keep Mic/spk and power cable bundles away from other power cable.

For power connection, route the one pair cable (with the connector on one end). From the inside unit to the location of the PS-1 power supply. Connect the conductors to the power supply (RED to +ve.

BLACK to -ve). Plug the connector to its mate from the printed circuit board. Connect 4 - pin polarized connectors and reassemble units





Place the housing so that the threaded hole can be positioned properly. If using tubing, orient the hole in the direction in which the tubing is to exit as shown in the drawing.

Be certain to position the housing so that the threaded hole can be positioned properly. If using tubing, orient the hole in the direction which tubing is to exit.

HOW TO USE THE TALK-THRU COMMUNICATOR...

- 1. With power switch off, turn Talk and Listen controls completely counter clockwise.
- 2. Turn on the unit by switching the Power ON/OFF switch to its upper position. At this position, the unit is at the auto mute
- 3. Adjust the TALK volume control until the attendant is clearly heard by the person outside the window when the attendant is speaking 2" to 4" from the gooseneck microphone at a normal speaking level. The green LED should go on when the attendant starts talking and go off when the attendant stops talking. If the green LED stays lit constantly, it indicates either the TALK volume setting or the ambient noise is too high.
- 4. Adjust the LISTEN control until the person outside the window is clearly heard when speaking at a normal level.

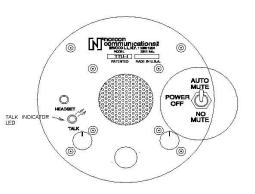
TTU® -1X Series 2-Way Talk-Thru Electronic Communication System.

A voice communications system for High-Security and Isolation Booth Situations. In today's security conscious environment, isolation booths are often the ideal recourse to protect your employees. But does it facilitate and help maintain your very important public image? Not if clerks and customers have to vell and repeat themselves to be heard or understood.

Norcon's Patented TTU® -1X Talk-Thru Communicator is a 2way, hands-free audio system that provides high-quality personal communication between people separated by security or isolation barriers. It is the most widely used system of its type in the U.S., and the world.

FEATURES

- Clear 2-way hands-free voice communication.
- Quality electronic design and engineering.
- Avoid raising your voice, repetition & misunderstanding.
- XLR removable mic for your convenience.
- Simple, one-person installation.
- Rugged, tamper-resistant materials. Anodized aluminum
- Self-powered with fast rechargeable battery option.
- Bullet-resistant option (UL level 3).
- Units available for ADA applications.
- Headset jack equipped on all models. Headset can be ordered separately.
- · Export models available



OPERATION HINTS:

- 1. Increasing the talk volume control allows the attendant to speak further away from the microphone as well as increasing the talk channel volume. The optimum distance from the microphone should be maintained at approximately 2"-4" or conversations not directed to customers may be heard outside the booth. Watch the green LED above the TALK volume control, it should be ON only when talking into the gooseneck microphone and off when not talking to the microphone.
- 2. Installing a headset into the Headset jack will allow communications from the headset and disconnect the speaker and the gooseneck microphone.
- 3. The unit will decrease the incoming volume level by approximately 70% some 30 seconds after the attendant stops speaking into the microphone. The purpose of this feature is to decrease the amount of extraneous noise entering the booth. Normal volume level is restored when the attendant speaks into the microphone. The muting function can be defeated by switching the POWER SWITCH to the NO MUTE position.

HOW IT WORKS ...

The Norcon TTU® system permits hands-free, 2-way communication between the booth attendant and the customer Unique circuitry facilitates ongoing, clear, 2-way conversation at all times – as if the two parties were together in the same room. The TTU®-1X Talk-Thru Communicator now incorporates circuitry to automatically attenuate the outside channel. If the gooseneck microphone is not used for a period of 30 seconds, the outside channel volume will be reduced approximately 70%. Normal operation is restored as soon as the attendant speaks into the gooseneck microphone. The automatic volume attenuation circuit prevents outside noise from bothering the attendant.

The TTU® -1X provides clear communication even in environments with high ambient noise by shaping the sound for maximum intelligibility. Its compression circuitry decreases loud, annoving sounds.

HOW TO INSTALL ...

Installation of the TTU® -1X is a very simple, one-person operation. All that's needed is a 3" to 4" diameter cutout in the barrier. Four fasteners and two rubber gaskets for mounting are supplied. The front face and housing are easily mounted on opposite sides of the barrier using the fasteners. The rubber gaskets prevent slippage and protects the barrier surface. The electronic section is then inserted into the housing and fastened in place.



SPECIFICATIONS:

MECHANICAL:

- Outside faceplate: Aluminum, anodized finish, tamper-resistant.
- Control housing (inside): Machined aluminum, anodized finish, tamper-resistant.
- Size: Outside faceplate 5" Dia. x 1/2" D. Inside control housing: 5" Dia. x 2-1/2" D (TTU®-1 AX) (TTU®-1 AX) 5" Dia. x 3-1/2" D (TTU®-1 D X) (TTU®-1 ABX)
- Weight: ~ 5 LB.
- Mounting: Partition hole 3 to 4" Dia. (3-1/2" recommended) Specify barrier thickness when ordering. Norcon will adjust the length of the mounting rods to meet your need. Panel Controls: LISTEN volume, TALK volume, POWER On/Off, AUTO MUTE On/Off.

ELECTRONIC:

- Audio frequency response: Selectively shaped for maximum voice intelligibility.
- Audio power: 2 watts per amplifier.
- Distortion: Less than 2%.
- Listen mode: 20dB compression.
- Microphone: Electret.
- Power Supply Adapter: Input 90-240V AC, 60 Hz. Output 15V DC, 1A. UL, (Canada and US) CE, level VI.

Specifications are subject to change without notice.

TTU-1A XLR P.1.