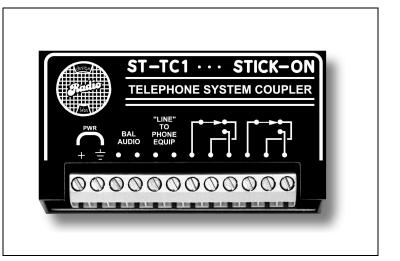


SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES Model ST-TC1 Telephone System Coupler

ANYWHERE YOU NEED ...

- To Simulate a Telco CO Line
- To Add Radio Control or Paging to KSU
- Contact Closure when Line is Selected
- Audio Input / Output from Telephone
 Switching Unit



You Need The ST-TC1!

The ST-TC1 is part of the STICK-ON series from Radio Design Labs. The durable bottom adhesive permits quick, permanent or removable mounting nearly anywhere or it may be used with RDL's racking accessories.

APPLICATION: The ST-TC1 is primarily intended to connect to an on-site telephone system switching (KSU). Connections from the ST-TC1 go into the KSU as if the ST-TC1 was an incoming phone line.

When the KSU seizes the line to the ST-TC1, a relay contact closure is provided which can be used to control a variety of equipment, such as a paging system or radio system. The closure is maintained as long as the line is seized. A 600 Ω transformer-isolated audio feed is available for audio to or from the telephone switching unit. The ST-TC1 will pass DTMF audio from a telephone keypad or other DTMF generating device.

The ST-TC1 may be utilized to add paging zones or a radio system interface to a telephone system. When any instrument in the telephone system picks up the line associated with the ST-TC1, the relay closes to activate the radio or paging function, and the audio spoken into the handset appears at the **BAL AUDIO** terminals. The ST-TC1 can not be connected to a phone line that has ringer voltage present.

The ST-TC1 can be used in conjunction with RDL's ST-VOX1 modules to provide two-way communication. The ST-VOX1 will provide the necessary push-to-talk function to key the two-way communications systems.



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Installation/Operation STICK-ON[®] SERIES EN55103-1 E1-E5; EN55103-2 E1-E4 Model ST-TC1 Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. **Telephone System Coupler** Specifications are subject to change without notice Incomina ST-TC1 ···· STICK-ON ST-TC1 ··· STICK-ON Lines from Phone TELEPHONE SYSTEM COUPLER TELEPHONE SYSTEM COUPLER Company **On-Site** Telephone Switching Ø \bigcirc Ø 000000 $\bigcirc \bigcirc$ Ø 000000 Ø System LINE 1 Use relay contacts to Use relay contacts to trigger paging or radio trigger paging or radio LINE 2 Balanced system. system. LINE 3 Audio Input Balanced or Output WARNING: Do NOT connect the LINE 4 Audio Input ST-TC1 directly to a or Output LINE 5 telephone-company phone line or any phone line with ringer voltage In this example, The LINE 6 ST-TC1's relay will present. Use the BAL AUDIO terminals energize when the to either connect to the phone handset is Connection line-level input or output of taken off hook. The to Phone audio devices such as a paging relay will de-energize Instruments system, radio, or a monitor. when the handset is returned to the In this example, selecting LINE 6 on any instrument on-hook position. will activate the relav inside the ST-TC1 and will DTMF audio can be make the BAL AUDIO connection available to that passed through the instrument. If the BAL AUDIO terminals on the BAL AUDIO ST-TC1 are connected to a paging input of an amplifier system, then any phone instrument may connection from the initiate an audio page by selecting LINE 6 and then phone keypad or === === === speaking. other DTMF generating devices. **TYPICAL PERFORMANCE** Line Connection: Simulated telco central office line to feed telephone system. Audio In/Out Impedance: 600Ω balanced Double-pole, Double-throw Switching Contacts: Max. Switching Power: 60 W, 125 Vac Max. Switching Voltage: 220 Vdc, 250 Vac Max. Switching Current: 2 amp Max. Carrying Current: 3 amp 24 to 33 Vdc @ 50 mA, Ground-referenced Supply Input:

Note:

Dimensions:

Do not connect ST-TC1 directly to a telephone-company phone line, or any phone line that has ringer voltage present.

3.94 cm

7.62 cm

1.65 cm

1.55 in

3.00 in

0.65 in

Height:

Width:

Depth: