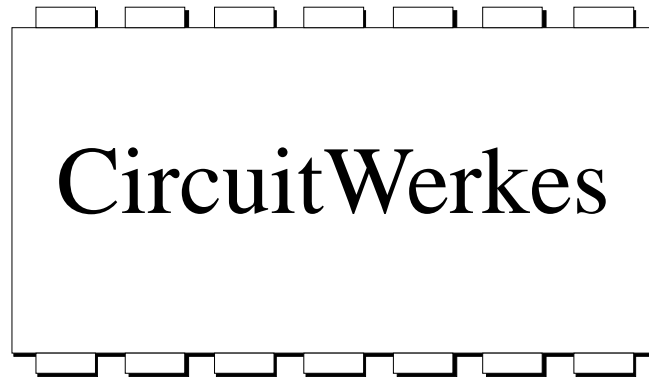


# AD-16

## Integrated Autocoupler and DTMF Remote Control



## Technical Manual

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# AD-16 Interconnection

The two boards comprising the AD-16 are the AC-2 autocoupler and DTMF-16 decoder. Both boards mount on the bottom panel of the enclosure. They both share a power jack and an audio jack on one end of the enclosure. The leads for each are daisy-chained to both boards.

The same end of the box houses the DTMF decoder's 37 pin output connector. The opposite end panel has the autocoupler's RJ-11 (telco connector), online and ring indicators, the manual seize and release switch and the autocoupler's 25 pin remote control connector.

*This manual is divided into two or more sections; the first is the manual for the AC-2 autocoupler, second is the manual for the DTMF-16 decoder. Pinouts for the 37 pin connector are near the end of the DTMF-16 section of the manual.*

*We heartily recommend that you read the manual before installing the AD-16; however, for those of you (like us) that want to get right to it, please note the following:*

- 1) The outputs of the DTMF-16 are darlington open-collector arrangements. They are capable of 150mA continuous at 12vdc or about 100mA at 30vdc, but they severely dislike "back-EMF" pulses of the variety you create when there is no diode (reverse-biased) across the coil of a relay.*
- 2) The decoder generates a beep acknowledge tone when a valid DTMF tone is detected. The beep can be disabled by a jumper on the DTMF-16 board. If the optional combination lock is installed, the beep circuit still acknowledges all DTMF tones, even when the decoder is locked.*
- 3) THERE IS A TROUBLE-SHOOTING GUIDE NEAR THE END OF THE AC-2 & DTMF-16 SECTIONS, IF YOU ENCOUNTER DIFFICULTIES.*
- 4) Audio fed into the 1/4" jack can mask incoming DTMF tones preventing the decoder from detecting tones reliably. If your AD-16 is fitted with a ComboLok, we suggest not sending audio back down the line until your unit has been unlocked.*

*If your AD-16 contains a Silencer option board, the first section of the manual will be the instructions for the Silencer.*

*If the optional ComboLok or Silencer board s are installed, the last four pages of this manual will be the ComboLok's description and technical drawings. . The ComboLock is a daughter board of the DTMF-16 decoder. The DTMF-16 beep jumper is routed to the lock for easy access. The factory set combination will be listed ton a seperate page accompanying the manual. Instructions for changing the combination are found on the first page of the combination lock section of the manual.*