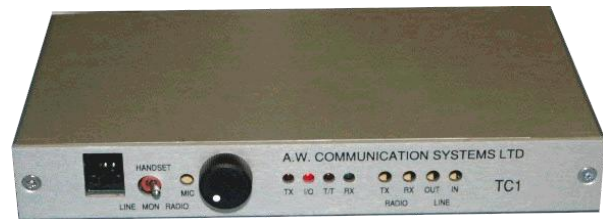




TC-1 – Base Station Control Unit

Key Features

- User selectable signalling format
- Compatible with most control systems
- Alarm inputs
- Both way monitor facility
- Receiver voting option
- Engineers Handset option
- Panel mount option



In Brief

This compact and flexible unit extends complete remote control of any system base station to existing control room systems, or alternatively to any one of the companion controller products available from AWCSL. Similarly, the TC-1 can be deployed with a remote fixed mobile to provide Reverse Frequency Trigger operation.

The TC-1 Control Unit can control base stations from all the leading manufacturers. This is achieved from the user selectable line control protocols.

Facilities

To control the base station, the TC-1 can be user programmed for 300 baud FSK signalling, Tone Remote signalling or proprietary FFSK line signalling. This would require the deployment of a compatible Desktop Control Unit or DS-32 Switch available from AWCSL.

Front panel indicators provide clear status conditions of the connected base station including Transmit, Receive, Talkthrough and other facilities.

External facility switching and site alarm inputs are available via open collector drivers presented on the rear connectors. More complex facilities are available with the addition of daughter boards and flash software upgrades.

The TC-1 includes a both way audio monitor feature. This feature allows parallel connected operator units to hear outgoing transmit audio from one another as well as incoming receive audio. This facility is also user selectable.

Most base stations provide a nominal 12volt dc output via the facility connector. Should power not be available from the base station of choice a separate 12volt dc power supply unit is available.

User Configurable

In common with all AWCSL products the TC-1 is fully user programmable. Located on the rear panel of the device are two banks of 8 dip switches. These switches facilitate the operating conditions of the TC-1 and can be pre-set at the manufacturing stage or during installation.

Options

To facilitate simple and convenient rack mounting a version of the TC-1 is available as a 1U panel mount variant.

For systems employing best received signals from multiple receiver sources, the TC-1 unit has the option for stepped tone receiver voting capability. This is provided by the addition of a daughter board.

Local access to the TC-1 is available via an optional engineer's handset facility. This feature allows an engineer at site to select local control of the base station, line connection back to the control position or to monitor audio from both directions without the ability to transmit audio in either direct.

Connectors

25 way D type
RJ45
2pin power socket

Base station connector
Line connector
separate power supply input

Specification

Dimensions	180mm(w), 115mm(d) & 25mm(h)
Power supply	12v dc
I/O	Open collector drivers
Line	-2 to -20dBm 4 wire 600ohms
M80 Emulation	Local or Remote supervisories, user selectable
Motorola Tone Remote	User selectable key-tone frequency
FFSK line control	Proprietary signalling format common with other AWCSL products

In the interests of continued development, AWCSL reserves the right to change this specification without notice.

A. W. Communication Systems Ltd

Crook Barn
The Crook
Roweltown
Carlisle, Cumbria CA6 6LH

Telephone: +44(0)1697 748777
Fax: +44(0)1697 748778
mail: sales@awcsl.com
Website: www.awcsl.com

