The Tech Works **2590** is a Telephone Interface Module designed to allow any Standard Caller I.D. Telephone or PBX trunk port to become a display Master Control Station. The **2590** provides all analog station support including Ring Voltage, Talk Battery, Dial Tone, Busy Tone, Reorder Tone, DTMF Decode, and Caller I.D. for Visual Display and communication with any Tech Works Voice-Call network.

When the phone rings, the programmed message is displayed. When the user takes the call an open voice communication is established with the calling station (the network includes Tech Works Voice-Call Substations). To call a station the operator simply dials the programmed number for the desired Substation. Queued calls will ring back if not cleared in a programmed amount of time. If more than one call is in the queue emergency calls always appearing at the top.

The latest in solid-state digital technology gives the operator complete control. Integral voice operated control (VOX) senses when the operator is talking and automatically adjusts the system for optimum transmit performance. When the operator stops talking the system automatically allows the operator to hear every sound from the distant location.

A standard RS232 serial port is provided for interface to the installers PC to programming user dial codes and display messages for each of 512 network addresses.

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**BENEFITS**

- Caller I.D Visual Display with any EIA Standard Telephone
- Easy to Install
- Easily Integrates with other Systems
- Up to 512 Addresses Per System
- Three Twisted Pair Wiring

**Associated Equipment**

- **2021B** Vandal Resistant Intercom Speaker w/Call-In Switch & Confirmation Light
- **2051-W** Patient Speaker Station
- **2052-W** Emergency Pull Cord Speaker Station
- **2055-W** Push-For Help Station
- **2508B** Data Collection / Control Module
- **2528B** Intercom Amplifier Substation
- **2590-TC** Telephone Master

**Design Information**

- **Power** 24V DC
- **Color** White
- **Mounting** Wall / Backboard w/Included Mount
- **Dimensions** 10" W x 2" H x 6.2" D
- **Weight** 2 lbs.
- **Connections** Screw Terminal, Network Interface-RJ45 RS232, Serial Interface-RJ11 Telephone Interface
Architects' and Engineers' Specifications

The Voice Communication System Intercom Telephone Interface Module shall be an intelligent digital control unit capable of communicating from a standard DTMF telephone instrument to the Tech Works distributed digital communication system. A standard RJ type 6 pin connector shall provide Ring Voltage, Caller I.D. Signaling, Dial Tone, Talk Battery, Busy and Reorder Tones, and DTMF Decode to the TIA standard telephone equipment. The voice control system shall be a very fast all solid-state switching, hands free operation. The Master shall totally control all communication with a variety of self-powered Substations using only a single link between stations. The link can be any communication path that is bi-directional and balanced to ground for 600-ohm loads. The link shall be as specified hereinafter and shall not require multiple conductor wire or home run wiring schemes for full operation. Any system requiring home run or star topology wiring shall not be considered under this specification. Any system not capable of installer programmable interaction of Substations shall not be considered under this specification. The Master shall be an intelligent electronic device requiring no more than 750 mA at 24 Volts DC for full operation. The Intelligent Master shall employ EIA standard RS485 digital communication. The system shall operate on three twisted pair parallel wiring. Systems requiring more than three twisted pairs from one station to the next for full operation shall not be considered under this specification.

The Voice Communication System Intercom Telephone Interface Module shall be Tech Works Model 2590.