

# ARC-16

## TRANSMITTER REMOTE CONTROL



### PRODUCT OVERVIEW

The ARC-16 is a flexible transmitter control system allowing for unattended and walk-away control. The ARC-16 can be configured as a full-time, dial-up or multi-site system. With its user-friendly front panel, setup, monitoring and control are easy. The ARC-16 provides 16 channels of status, metering, and control. Units may be cascaded for more channels.

#### FULL-TIME CONTROL:

Operators at live stations prefer a full-time transmitter control system because it gives them the ability to respond quickly. A full-time system includes a studio unit and a transmitter unit with internal link modems for connecting with a variety of link types. Metering and status at the transmitter are instantly available at the control point, and immediate corrective action is as simple as pressing a button. Voice dial-up and computer access are available as options. A unique benefit of the ARC-16 is the ability to monitor and control studio equipment including program automation, EAS, and security, using the optional SIO kit.

#### DIAL-UP CONTROL:

The ARC-16SA stand-alone transmitter unit with included ESI Enhanced Speech Interface allows dial-up control and monitoring of your site. The ARC-16SA can call out when alarms occur. Along with voice access, the ESI allows you to connect to your site with a computer using AutoPilot® and AutoLoad software. The ARC-16SA can be expanded into a full-time or multi-site system.

#### MULTI-SITE CONTROL:

Consolidate remote sites by adding additional ARC-16 units to your stand-alone or full-time system to create a multi-site system. With a multi-site system, each ARC-16 can control other transmitters and auxiliary sites, or provide additional control points. One phone call to any unit with an ESI allows you to monitor and control all connected sites over the phone.

### FEATURES/BENEFITS

- Exclusive site to site control allows any site to control all other connected sites.
- Exclusive SIO option allows control of studio equipment from transmitter or telephone.
- Link up to 4 units providing a maximum of 64 channels each of metering, status, and command.
- Monitor via LAN/WAN or Internet using optional Web Interface.
- Programmable alarm delay and command duration for each channel.
- Setup and program your unit from the front panel or with your computer using the included AutoLoad software.
- Push-button calibration – no calculations required.
- Automatic control and monitoring with optional AutoPilot software.

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# SPECIFICATIONS

## DIMENSIONS:

3-1/2"H x 19"W x 11"D  
(8.89cm H x 48.3cm W x 28cm D)

## OPERATING TEMPERATURE:

0°C to 50°C

## ANALOG METERING INPUTS:

16 inputs  $\pm 4.5$ VDC maximum referenced to ground

## STATUS INPUTS:

16 inputs 0-28VDC or switch closure

## CONTROL OUTPUTS:

32 open collector outputs (16 raise, 16 lower) maximum 250mA, 28V; 10 amp maximum with optional IP-8 interface panel. Configurable command duration from .22 to 28 seconds per channel.\*

## FAIL-SAFE & ALARM OUTPUTS:

Open collector fail-safe output activates 90 seconds after detection of studio to transmitter link failure. Configurable alarm delay from 0 to 126 seconds per channel.\*

## CONTROLS:

Front panel selection of mode, maintenance override, channel increment, channel decrement, on/raise, off/lower, alarm clear.

## CALIBRATION:

Each channel is calibrated using the raise and lower keys to adjust the reading of the sample to the proper display value. The speed of the change in value is proportional, permitting  $\pm 1$  digit adjustment or rapid gross changes.

*\*Alarm delays and command durations are configured using the AutoLoad software.*

## COMMUNICATIONS LINK:

Modem boards are installed for the class of service requested. A 2-wire modem is used for audio over a leased line or twisted pair. The Universal Modem provides independent path for send and receive, each configurable for audio, RS-232 or sub-carrier frequencies.

## MODEM CHARACTERISTICS:

### WIRE MODEM:

600 ohms balanced, -9dBm nominal out, -30dBm min. in

### UNIVERSAL MODEM:

2000 ohms unbalanced, 1.5V p-p out, .25V p-p min. in

## MODULATION:

### FSK:

1070Hz and 1270Hz transmitter to studio, 2025Hz and 2225Hz studio to transmitter.

### SUBCARRIER FREQUENCIES:

Frequencies of 39, 67, 92, 110, 152, and 185 KHZ.

## DATA RATE:

300 to 9600 bps, depending on type of communication link being used.

## DISPLAY:

32 character (16 x 2) LCD alphanumeric display, 16 LED status indicators, 3 mode indicators.

## A/D CONVERTER:

12-bit dual slope integration with auto-zero and inherent RF and 60Hz rejection.

## MEASUREMENT ACCURACY:

Better than 0.1% for 4V input; Better than 0.5% at min. 0.25V input.

## MEMORY RETENTION:

Non-volatile memory for storage of calibration constants, setup information, and user defined labels for ten years without power.

## EXTERNAL CONNECTIONS:

DB-37P for analog and status inputs, DB-37S for control outputs, BNC connectors for use with radio modem, barrier strip for use with wire modem, IEC power cord for AC power.

## POWER REQUIREMENTS:

117 VAC nominal: 50/60Hz; 30W; 220V available.

## AUTOLOAD SOFTWARE REQUIREMENTS:

- Pentium 133 MHz minimum
- Windows® 98, ME, NT 4.0 w/ SP5, 2000 w/ SP1 or XP
- 20MB free hard drive space
- 32MB RAM
- One COM port for direct cable connection
- Bell 212A compatible modem for dial-up modem connection
- CD-ROM Drive