

SERVICE MANUAL

FOR

MODEL 350-300R

VISITATION POWER SYSTEM

EQUIPPED WITH FILTERED RECORDING CONNECTIONS



Serving the Telephone Industry Since 1930

*Communication Equipment
& Engineering Company*

519 West South Park Street
Okeechobee, Florida 34972

Voice: 863-357-0798

Fax: 863-357-0006

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL 350-300R VISITATION POWEWR SYSTEM.
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

For us to better serve you, please have this information available when calling for technical support.

CEECO

Communication Equipment & Engineering Company

519 West South Park Street
Okeechobee, Florida 34972

(863) 357-0798 Voice
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1.0 INTRODUCTION

The practices in this manual provide installation, technical and maintenance information for Model 350-300R Visitation Power System.

The information in this manual is subject to change without notification.

For information not included in this manual, please call or write:

CEECO
Customer Service
519 West South Park Street
Okeechobee, Florida 34972

(863) 357-0798
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2.0 GENERAL DESCRIPTION

The CEECO Model 350-300R is a Visitation Power System designed for special purpose applications that require a rugged and convenient means for wiring multiple visitation units to the power supply, individual loops, and recording apparatus. The system includes an AC to DC power supply, insulated screw terminals for up to 32 visitation units (16 pair), insulated screw terminals for attaching recording apparatus to each pair, audio balancing and filtering components, and instruction plate, all in a rack or wall mountable, pre-wired configuration with mounting hardware.

Note: Wire for connecting the 350-300R to the telephone/visitation units and/or the recording apparatus is not included.

3.0 OPERATION

The CEECO Model 350-300R Visitation Power System is designed to provide power, talk path loops, and recording points for up to 16 pairs (32 units) of the CEECO 350 Series Visitation Telephone Units. Once installed, the system provides regulated and balanced power such that each telephone pair may conduct a conversation of high sound quality immediately upon lifting each pair to the ear. The record connection points provide capacitance filtering for clear quality sound recordings from each pair. The record parameters are dependent upon the chosen apparatus.

4.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter
¼" Nut Driver
Flat Blade Screw Driver
Small Flat Blade Screw Driver
Wire Strippers/Cutters 22-26 gauge
Small Needle Nose Pliers
Security Tool, CEECO Part Number 301-064.

******* WARNING *******

- A. Never install telephone wiring during a lightning storm.**
- B. Never install telephone wiring in wet locations unless the wiring is specifically designed for wet locations.**
- C. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface or other power supply.**
- D. Use caution when installing or modifying telephone lines or attached equipment.**
- E. Do not attach wiring to or remove wiring from the CEECO Model 350-300R without first unplugging the unit from the AC power source.**

5.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 5.1 The power supply is intended to run on a 100-240 VAC 2A 50/60Hz line and comes with a 3-prong grounding plug. The outlet must be grounded, or a separate ground wire should be run from the individual phone units to a suitable ground. Do not plug the power supply into the outlet until the CEECO Model 350-300R is mounted and all wiring is completed. The selected location must be safe and secure and, ***Grounding and installation must be in accordance with all applicable local and national electrical and building codes.**
- 5.2 Determine the desired mounting location for the 350-300R and mount securely to the wall or rack utilizing the include hardware. Page 12 of this manual may be referenced for dimensions for mounting.
- 5.3 Attach the wire pairs from each visitation pair to the appropriate screw terminal positions on the 350-300R, as per the diagram on page 13 of this manual. It is best to match the wire color codes between the visitation units and the visitation system. For those visitation telephone units that have red and green wires, the green corresponds to gray and the red corresponds to white on the 350-300R.
- 5.4 Attach the wire pairs from the recording equipment to the appropriate screw terminal positions on the 350-300R, as per the diagram on page 13 of this manual.
- 5.5 Run the modular cords through the knock out holes in the mounting boxes. Mount the telephone units, utilizing the security screws provided, to the mounting boxes. The security tool, which is sold separately, must be used for the security screws.
- 5.6 Note: For high sound quality conversations and recordings, be certain that each set of connected wires is cleanly stripped and tightly attached to the screw terminal positions.
- 5.7 After ensuring that each connection has been properly made, and all wires have been neatly and safely routed, plug the power supply of the CEECO Model 350-300R into the intended outlet. All audio paths should be available as wired.

6.0 TESTING

- 6.1 Once installation has been completed, allow the phones to rest on-hook a few minutes, with the power supply on.
- 6.2 Lift the handsets of the units that are intended to talk to one another. Determine that normal conversation is allowed. If so, return the handsets to the cradles. The phone units are ready for use.
- 6.3 If normal conversation does not take place, please review the installation steps. Make a visual check to ensure that all wires and connectors are as they should be. Remember that the phone units, which are connected to the same screw terminal points, will allow talk paths to one another. A phone connected to one screw terminal point cannot talk to a phone connected to another jack/interface.
- 6.4 Conduct a test recording from each of the telephone pairs to ensure that the recording operation is clear and as intended. If the recording is not clear or as intended, re-examine the wiring to the record points of the 350-300R. Remember that each of the recording wire pairs can only record voice from the telephone units that are wired to that same screw terminal set on the 350-300R.
- 6.5 Once it has been determined that the installation and connections are correct, the system is ready for use. If trouble is still experienced, please refer to section 9.2 of this manual.

7.0 SPECIFICATIONS

INPUT POWER: 100-240VAC, 2A, 50/60Hz

OUTPUT POWER: 15VDC, 4A

LOOP CURRENT: 23 ma min. to 80 ma max.

IMPEDANCE: 600 Ohms

LOOP RESISTANCE: 100 Ohms 2 Watt

ENVIRONMENTAL: Temperature 0° C to 50° C
Humidity 20%-90% non-condensating

RECORD CAPACITANCE: 4.7 uF 35V

WIRE GAUGE: 24 Gauge (White=Low; Gray=High)

DIMENSIONS: 19" Wide x 10.5" High x 3" Deep

MOUNTING: RACK 19" Wide x 7.5" High
WALL 16" Wide x 9 3/16" High

WEIGHT: Approximately 4 lb.

8.0 PARTS LIST

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	350-300R	Visitation Power System
1	350-255	Power Supply
8	301-10086	8 Position Insulated Screw Terminal
1	301-030	Instruction Frame
32	301-5160	100 Ohm 2 Watt Resistor
16	301-1009	4.7 uF 35V Capacitor
4	Hardware	#10-32 x 1" Screw, Nut, Washer
4	Hardware	1.5" Deck/Dry Wall Screw
16	Hardware	6-32 x 1.5" Security Screw
3	Hardware	6-32 x .75" Security Screw
19	Hardware	6-32 Nut
2	Hardware	#6 Lock Washer
1	Hardware	#6 Flat Washer

9.0 REPAIR AND RETURN INFORMATION

9.1 WARRANTY REPAIR

Any device returned requiring warranty service; repair or credit must be accompanied with a "Return Material Authorization" (RMA) Form. It must include: return-shipping instructions, original purchase order number and special marking instruction. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

9.2 DIRECT ALL INQUIRES TO:

CEECO
Repair Department
519 West South Park Street
Okeechobee, Florida 34972

9.3 NON-WARRANTY REPAIR

CEECO will repair equipment out of warranty for a set charge plus parts. The customer must pay the shipping costs both directions.

9.4 RETURN FOR CREDIT

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 20% restocking charge based on the manufacturer's list price. Return RMA must be requested no later than 30 days after original shipment.

10.0 WARRANTY POLICY

10.1 GENERAL

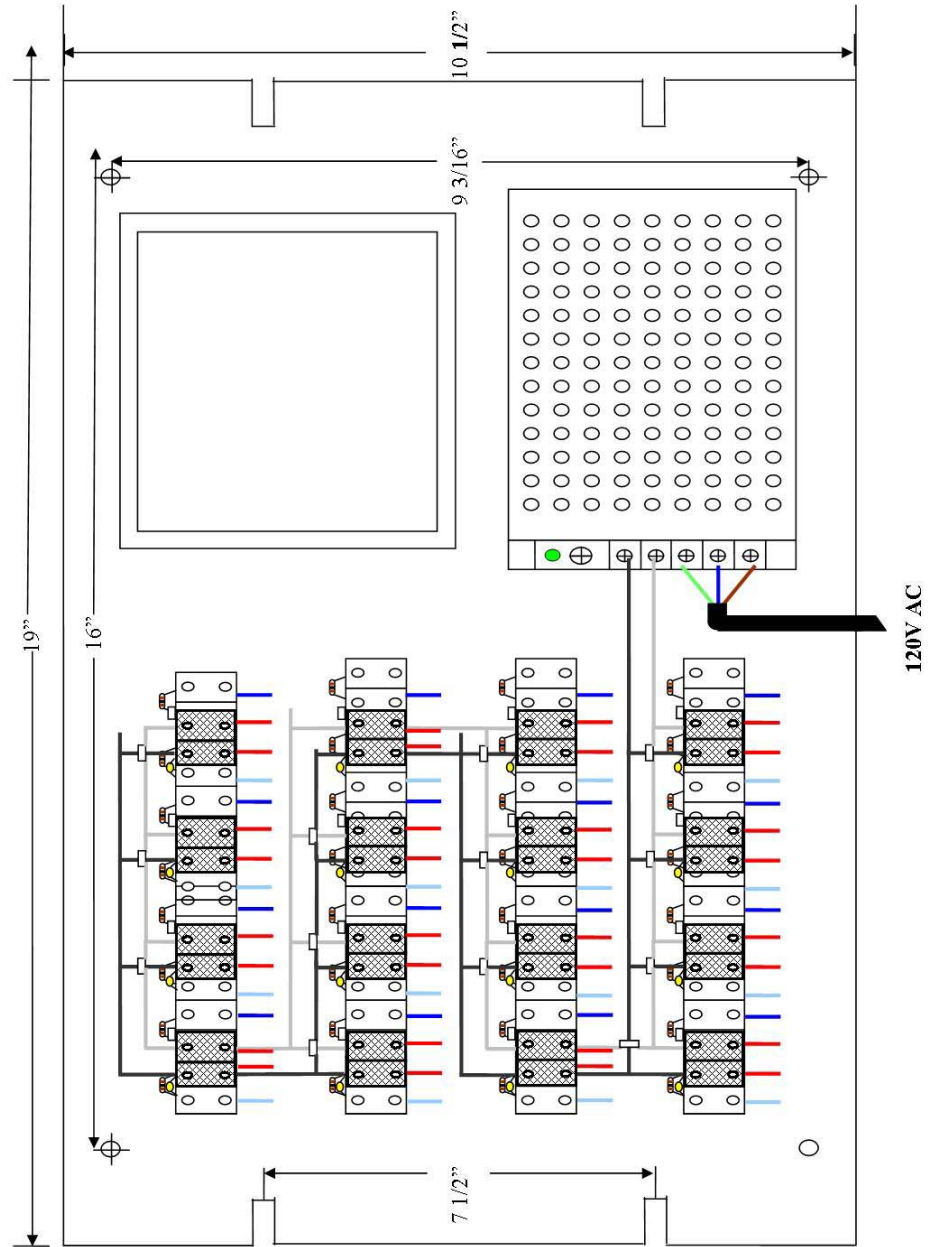
CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair or consequential damages of any kind, which have been caused by neglect, abuse, acts of God or improper operation of equipment. This warranty is limited to the value of material only.

10.2 PRINTED CIRCUIT BOARDS

Printed circuit boards should not be field repaired. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by any one other than CEECO will void the warranty.

11.0 DIMENSION & WIRING DIAGRAM

350-300R



12.0 WIRING DETAILS DIAGRAM

