SATMUI4

USER/INSTALLER GUIDE

Select Entry Systems

Select Engineered Systems, Inc.

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1.0 INTRODUCTION

The SATMUI4 (Multi - Unit - Interface) is a device designed to allow multiple SAT units (or other telephone devices) to share a single telephone line while maintaining communication integrity and confidentiality. Each SATMUI4 will accommodate up to four ancillary devices, operating in a first come, first served manner (See Figure 1). If the Telco line is utilized by a device, any subsequent device put in an off-hook condition will receive a simulated busy signal generated by the SATMUI4. Since the SATMUI4 is designed to place a minimal load while maintaining good longitudinal balance, a SATMUI4's Telco Line input may be connected to the output of another SATMUI4. This will allow up to sixteen SAT units to share a single telephone line.

SATMUI4

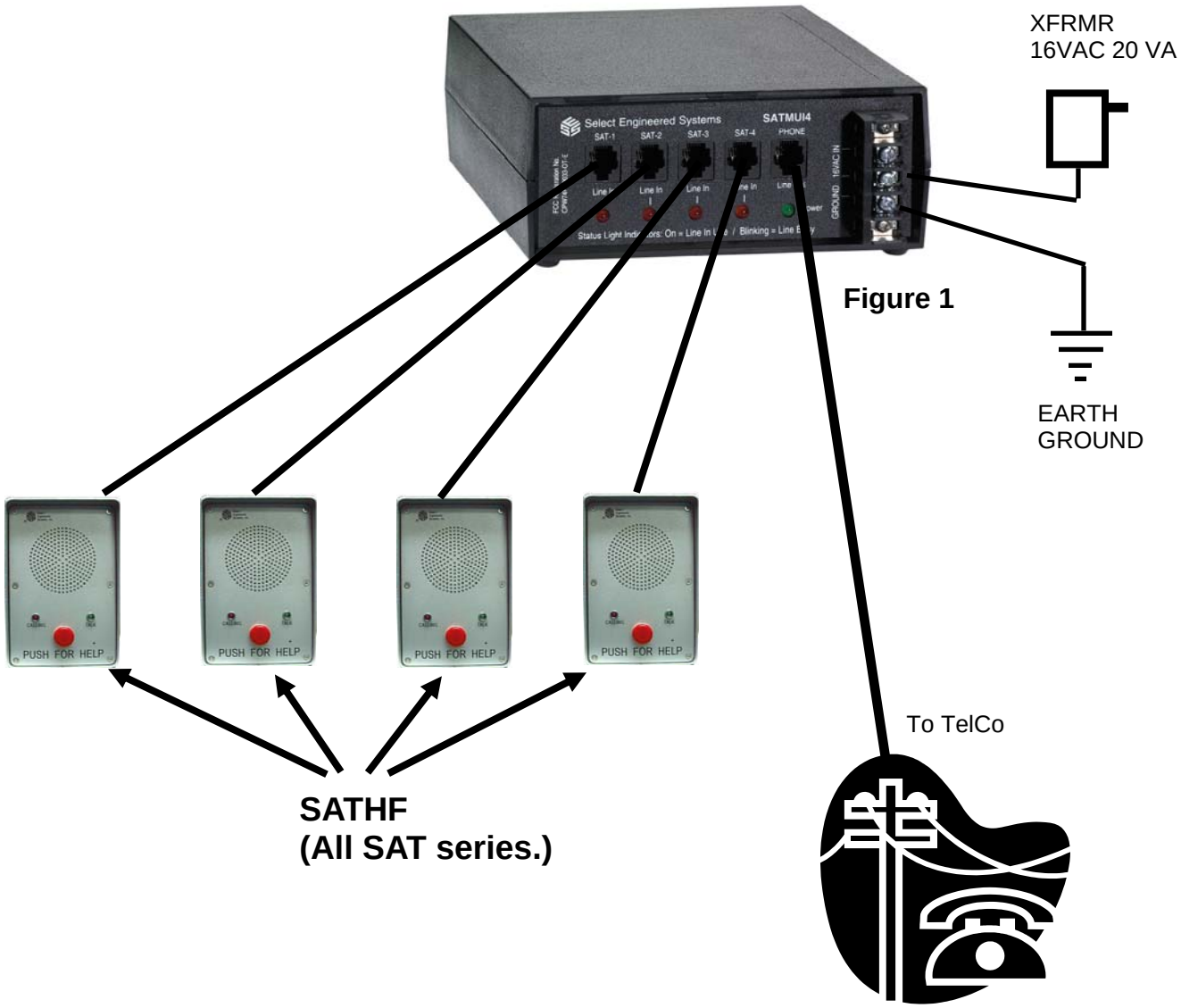

Figure 1

2.0 CONNECTIONS

The SATMUI4 connector panel contains five RJ-1 1 C receptacles and one three position barrier strip. See Figure 2 for connection definitions.

SATMUI4

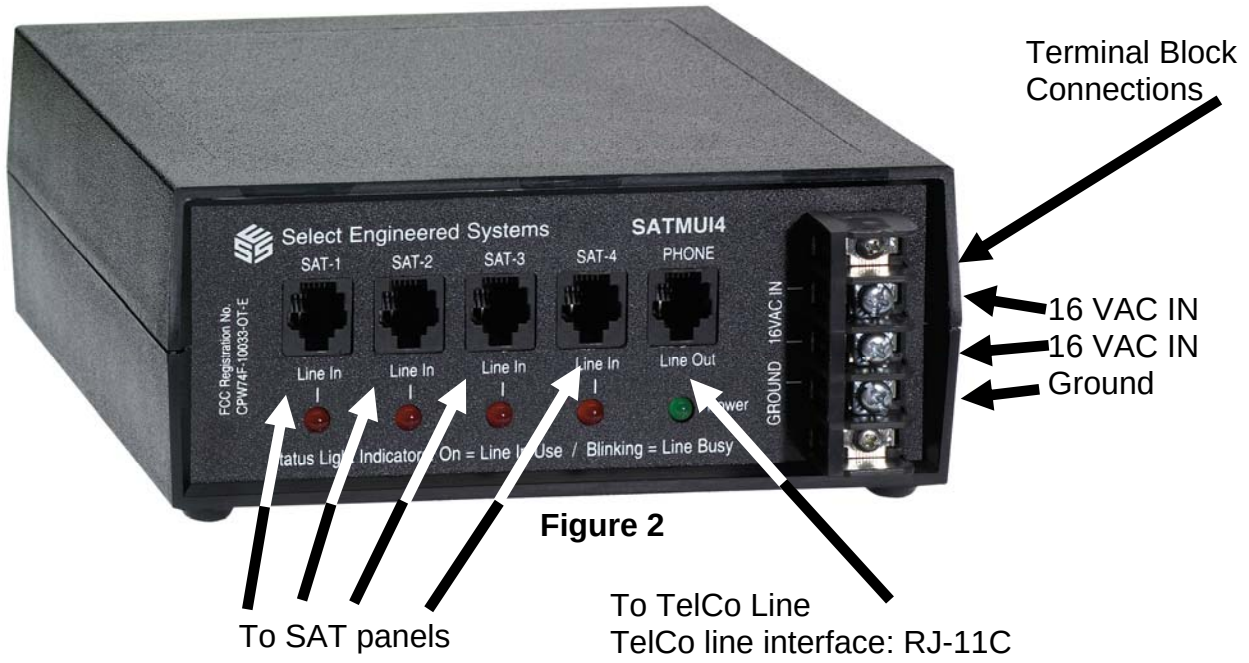

Figure 2

1 SATMUI4 on a single 16 VAC 20 VA transformer using 18 ga wire up to 100 feet in length is recommended, per factory.
Up to 3 SATMUI4's may share a single 16 VAC 20 VA transformer using 16 ga wire up to 100 feet in length .
Up to 6 SATMUI4's may share a single (optional) 16 VAC 40 VA transformer using 16 ga wire up to 100 feet in length .
ALL SATMUI4's must be connected to a good earth ground with at least #16 AWG stranded wire whose total maximum distance shall not exceed 50 feet.

SATMUI4

3.0 SATMUI4 MULTIPLE CONFIGURATION

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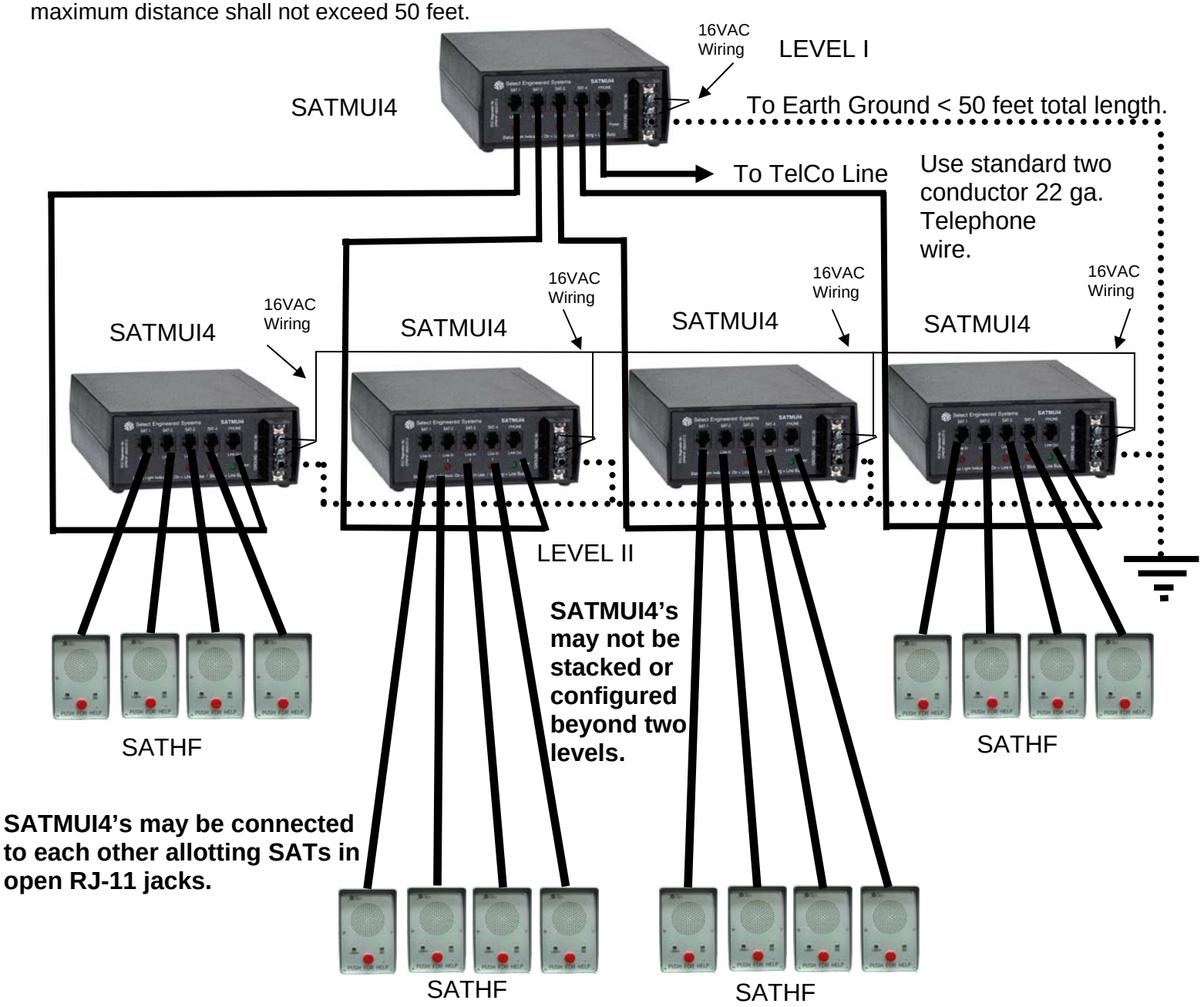

#16 AWG Earth ground wiring may be run from one SATMUI4 ground terminal to the next SATMUI4 ground terminal, so long as the total length of the earth ground wiring does not exceed 50 feet in length.

4.0 OPERATION

The SATMUI4 operates automatically. If a device is contending for the unused telephone line, a connection is established for normal operation (the SATMUI4is transparent). Subsequent devices placed off-hook would receive a simulated busy tone generated by the SATMUI4. This condition persists as long as the telephone line remains in use.

5.0 SPECIFICATIONS

A. Power 16VAC, 20 VA (transformer provided) up to 3 SATMUI4 devices
Optional 16VAC, 40 VA transformer required for up to 6 SATMUI4 devices.

B. Ground #16 AWG stranded wire, not to exceed 50 feet in length.

C. Construction ABS Plastic enclosure. Not intended for exposure to weather.

D. Telephone Line Standard touch tone service.

E. Telephone Line Interface Standard RJ-1 1c modular jack.

F. Ringer Equiv. 0.0A 0.0B

G. FCC Reg. Number CPW74F-10033-OT-E

6.0 POWER REQUIREMENTS

The SATMUI4 requires a 16VAC power transformer (supplied) connected as shown to the terminal block on the front panel. A good earth ground must also be connected to the unit's terminal block. This wire **MUST** be a minimum of 16 ga. connected to a ground rod or cold water pipe. This wire **MUST** be less than 50 feet in length.

7.0 INSTALLATION

Installing the SATMUI4 is as fast and easy as installing a common telephone. Perform these steps:

1) Conveniently locate the SATMUI4 in a place where the Telco line and AC power can be installed (usually a utility closet).

2) Connect the Telco line with RJ-1 1C male connectors (provided) to the SATMUI4 'LINE OUT' receptacle.

3) Connect the Lines from the SAT equipment to the 'LINE IN' receptacles on the SATMUI4.

4) CONNECT A GOOD EARTH GROUND TO THE UNIT.

5) Connect the outputs of the 16 VAC transformer (provided) to the SATMUI4's terminal block.

6) Plug the transformer into a 110 v electrical outlet.

7) Test unit.

8.0 TROUBLE-SHOOTING

The following trouble-shooting guide is presented for convenience. If further assistance is desired, call SELECT ENGINEERED SYSTEMS AT 1 (800) 342-5737 or (305) 823-5410.

SYMPTOM	PROBABLE CAUSE	ACTION
TELEPHONE EQUIPMENT WILL NOT DIAL OUT.	PHONE LINE DISCONNECTED. INSUFFICIENT LINE POWER.	CHECK FOR APPROX. 48 VDC ON-HOOK LINE VOLTAGE. CHECK OFF-HOOK VOLTAGE. SHOULD BE BETWEEN 6 AND 8 VDC.
TWO PHONES OFF-HOOK NEITHER GETS BUSY SIGNAL (NO PARTY LINE).	"IN" PORT NOT CONNECTED TO A TELCO LINE. DEFECTIVE LINE CORD.	CHECK PHONE LINE CONNECTIONS. CHECK ALL INTERCONNECTS.
TWO PHONES OFF-HOOK NEITHER GETS BUSY SIGNAL (PARTY LINE).	POWER SOURCE NOT CONNECTED.	CHECK 16 VAC SUPPLY. CHECK SUPPLY WIRING. CHECK 110 VAC CIRCUIT BREAKER.
TELEPHONE UNIT ALWAYS BUSY.	ANOTHER UNIT IS OFF-HOOK.	CHECK OTHER TELEPHONE UNITS FOR OFF-HOOK CONDITION.
ADDITIONAL PROBLEMS.		CONSULT YOUR SERVICE REPRESENTATIVE.

“BETTER TECHNOLOGY MAKES BETTER SYSTEMS”

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