

SINGLE-LINE DIGITAL RECEIVER

INTRODUCING THE SG-SLR

The SG-SLR is a Single-Line, Multi-Format Digital Receiver designed to interpret a variety of communications formats for the ultimate in convenience and versatility. The SG-SLR will provide features generally found in larger Multi-Line receivers. The SG-SLR is easy to use, and easier to upgrade as new technologies develop and as the demands on your central station increase.

CONVENIENT INSTALLATION

For installation convenience, the SG-SLR is packaged in a desktop Card Cage.

MULTIPLE OUTPUTS

The SG-SLR provides flexibility when it comes to generating output: the SG-SLR can be connected to a Printer or the RS-232 port of a PC automation software, and the Station Operator can control the entire system through the built-in keypad on the SG-SLR.

MORE COMMUNICATION FORMATS

The SG-SLR can interpret the following formats:

- SIA with Tone and Data Acknowledge.
- Ademco Contact ID.
- Ademco express 4-1, 4-2.
- Acron 3-8 or 4-8 DTMF.
- Sur-Gard DTMF 4-1, 4-2, 4-3 and 4-3 with Checksum.
- Franklin/Ademco/Radionics 3-1, 3-1 extended, 4-1 and 4-2 at 10/14/20/40 baud and 40 baud with Checksum.
- Super Fast Ademco or High Speed DTMF 4-8-1.
- FBI Super Fast.
- Modem II
- BFSK

POWERFUL INFORMATION MANAGEMENT

All information received is displayed on a 32-character LCD screen, and can be sent from the SG-SLR to a parallel printer or computer connected to a RS-232 serial port.

The built-in real time clock/calendar "stamps" all information with the time and date. Adjustment of this clock and other programming changes to the receiver are protected by password codes.

In addition, various buffers and non-volatile memory units ensure that no information is lost or deleted should AC power fail, or if the unit is taken off-line for maintenance.

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ADVANCED DESIGN

The SG-SLR is equipped with non-volatile memory, which stores the last 256 alarms received, with the telephone number corresponding to each alarm transmission (with the Caller ID option selected). The Caller ID (Call Display) capability is built-in and the telephone numbers of reporting digital communicators can be displayed on the LCD Display, printed out and stored in memory. A hand-set output for two-way audio is standard. In case of a printer or computer fault, the SG-SLR retains the last 256 events and automatically sends them to the optional computer and/or printer when restored.

The SG-SLR uses a powerful 16-bit microcontroller. It is powered by a 16VAC 110 50/60 Hz external step-down transformer to 16.5V 40VA. The unit is equipped with 12V rechargeable stand-by battery connections and an automatic battery charger for back-up should the AC power fail. Low current consumption allows more than 24 hours of operation.

SUPERVISION FOR SUPERIOR RELIABILITY

Both battery and AC power connections are supervised; there is also continuous phone line supervision. Any trouble conditions are reported to the printer and computer.

The printer is supervised for power loss, off-line condition, paper out or other trouble conditions. The communication link to the computer via the RS-232 COM1 port can be supervised by "heartbeat" test transmissions. Most central station automation software packages are supported:

- SIMS
- SIS
- MAS
- APROPOS
- ALARM COMMPRO
- MICROKEY
- GENESIS
- ABM
- ALARM SOFT
- DICE

The SG-SLR has 3 programmable outputs (switched negative), with one of the outputs being annunciated on the unit's faceplate with an LED.



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FEATURES

- *Caller ID (Call Display) capability
- Non-Volatile RAM for the programmable configuration and the 256-Event Memory Buffer.
- Large, easy to read, backlit 32-character Liquid Crystal Displays.
- Message display on LCD screens in plain, understandable language.
- EUROCARD circuit board packaging for less complexity, higher reliability, easy servicing and higher performance.
- All modules function individually and allow for maintenance or upgrading of programming.
- Real time clock.
- 16-bit Microcontroller or Microprocessor
- 1 parallel printer port
- 2 serial RS-232 ports

PROGRAMMABLE SERIAL PORT CONFIGURATION

- Wait for Ack Time, Baud rate, Data bits and Parity.

PROGRAMMABLE SYSTEM FUNCTIONS

- Computer and Printer, Computer only, Computer with Printer as stand-by and Printer only.
- Fast transmission (Zero Delay) of multiple alarms to computer and printer
- Continuous verification of the computer to the receiver link (Heartbeat option).
- 2 programmable outputs (Switched Negative) on SG-SLR, one indicated with the "Option" LED on the SG-SLR front panel.
- Outputs on the SG-SLR for Acknowledge, Trouble and Buzzer.
- AC loss detection and stand-by battery supervision.
- Low battery detection and automatic disconnection of discharged battery to prevent damage.
- Operator Acknowledge option.
- Telephone Line Supervision.

Please note: Though reference is made to "Caller ID" in the MLR2 Manual, Sur-Gard does not warranty the use of this feature in all applications.

The Caller ID feature is found within the MLR2-DRL2A is based upon North American and British Caller ID standards and is not guaranteed to function outside of these areas. Sur-Gard reserves the right to produce and ship to the "International" market, product without the Caller ID software or firmware. The Caller ID service is provided in many countries around the world, the MLR2-DRL2A has not been engineered to accept these various Caller ID services.

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COMMUNICATION FORMATS AVAILABLE

- 3-1, 4-1, 4-2 formats with or without Checksum, and/or extended; 10, 14, 20 or 40 baud.
- 4-1, 4-2, 4-3 and 4-3 with checksum, and/or extended in DTMF formats.
- Acron 3-8, 4-8 in DTMF formats.
- Ademco Contact ID in DTMF format.
- Ademco Super Fast 4-8-1 or High Speed DTMF format (with and without Checksum, and/or extended)
- FBI Super Fast 4-3-1 DTMF format.
- Scantronic DTMF format.
- SIA level I and II formats: 110 and 300 baud, tonal and data acknowledge, with and without separators.
- 1400Hz, 1600Hz, 2000Hz, 2300Hz, Dual Tone, FSK and Modem II, handshakes. Up to 8 different handshakes can be selected with order selection.
- Ademco DTMF 4-1 and 4-2 Express with checksum, and/or extended formats.
- Radionics Modem II format.

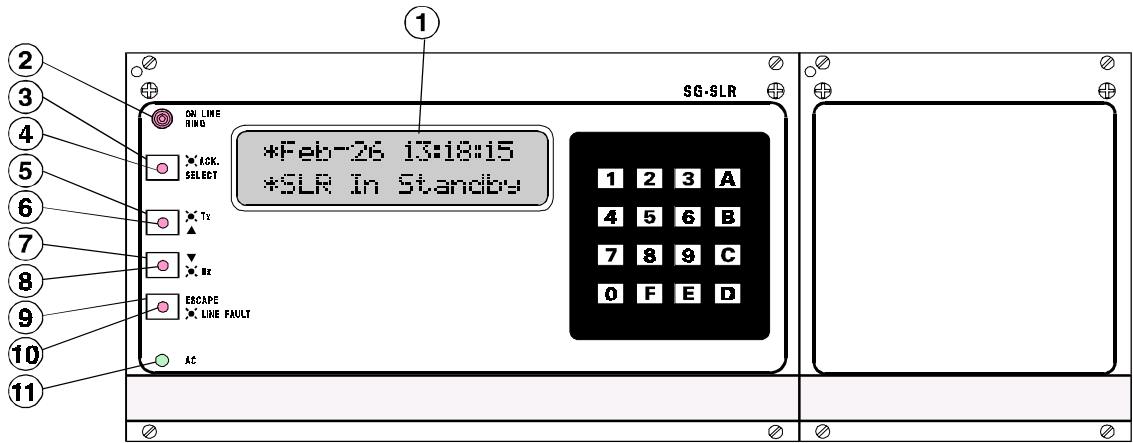
OPTIONAL FORMATS:

- 3-2, 3-1 extended



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SWITCHES AND LIGHTS ON THE SG-SLR



SG-SLR CONTROLS

Momentarily depressing and releasing a button will register as a single input or keystroke. Pressing and holding a button for approximately 1 second will register as a repeating input or keystroke. For example, to quickly scroll through a list of items, you press and hold the appropriate button, rather than pressing the button repetitively.

- | | | |
|-----------|--------------------------------|---|
| 1 | Liquid Crystal Display: | Displays incoming data, programming and other information. The display is backlit for visibility in low light environments. |
| 2 | RING ON LINE: | The "RING ON LINE" light flashes when ring is incoming and turns ON when it's on line |
| 3 | [SELECT] button: | Press this button to acknowledge an alarm in emergency manual mode. In the normal mode, press this button to access the Menu. |
| 4 | ACK: | The "ACK" light is located inside the [ACK/SELECT] button. The "Alarm" light will flash if an alarm is received. The "ACK" light will turn OFF when the alarm is successfully communicated to the computer, or when the operator acknowledges the alarm by pressing the [ACK/SELECT] button. |
| 5 | The [▲] button: | The [▲] button is used to scroll the display to the next message. |
| 6 | Tx: | The "Tx" light monitors the COM1 transmission signal (on RS-232 cable). |
| 7 | The [▼] button: | The [▼] button is used to scroll the display to the previous message. |
| 8 | Rx: | The "Rx" light monitors the signal received from the computer connected to COM1 (on RS-232 cable). |
| 9 | [ESCAPE]: | The "ESCAPE" button is used to save changes and exit a mode. It is also used for other functions when indicated on the display screen. |
| 10 | LINE FAULT: | The "Line Fault" light will come ON if the telephone line is disconnected or if the periodic dial tone test fails. The "Line Fault" light will turn OFF automatically when the telephone line or dial tone is restored. In stand-by mode, this light flashes at 2 second intervals to indicate that system operating system is running. |
| 11 | AC: | The "AC" light monitors the AC power supply. |



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COMMUNICATION FORMATS

Name	Handshake	Data	Bauds	Format	Extended	Kiss Off
ADEMCO SLOW	1400Hz	1900Hz	10	3-1, 3-2(option), 4-1, 4-2, 4-2	No No	1400Hz 1400Hz
S.K FAST	1400Hz	1900Hz	14	3-1, 3-2(option), 4-1, 4-2, 4-2 Plus	No No	1400Hz 1400Hz
FRANKLIN, SESCOA	2300Hz	1800Hz	20	3-1, 3-2(option) 4-1, & 4-2	No No	2300Hz 2300Hz
RADIONICS	2300Hz	1800Hz	40	3-1 & 4-2	No	2300Hz
RADIONICS	2300Hz	1800Hz	40	3-1	Yes	2300Hz
RADIONICS	2300Hz	1800Hz	40	3-1 + checksum 4-2 + checksum	No No	2300Hz 2300Hz
RADIONICS	2300Hz	1800Hz	40	3-1 + checksum 4-2 + checksum	Yes Yes	2300Hz 2300Hz
SIA, SIA8, SIA20 Level 1,2	FSK MARK	FSK MARK/ SPACE	110/300			tonal/ Data ack
CONTACT ID	Dual Tone 1400Hz	DTMF	DTMF	4-2-1-3-2-3	No	1400Hz
SUR-GARD	2300Hz	DTMF	DTMF	4-1, 4-2, & 4-3	No	2300Hz
SUR-GARD	Dual Tone 1400Hz	DTMF	DTMF	4-1, 4-2, & 4-3	No	1400Hz
SUR-GARD	2300Hz	DTMF	DTMF	4-3 + checksum	No	2300Hz
SUR-GARD	Dual Tone 1400Hz	DTMF	DTMF	4-3 + checksum	No	1400Hz
S.F. ADEMCO	Dual Tone	DTMF	DTMF	4-8-1With/ without checksum	No	1400Hz
SCANTRONIC	Dual Tone	DTMF	DTMF	4-8-1,4-16-1, 6-8-1, & 6-16-1	No	1400Hz
ACRON S.F.	2300Hz	DTMF	DTMF	3-8 & 4-8	No	2300Hz
ADEMCO EXPRESS	Dual Tone	DTMF	DTMF	4-1 (Option) and 4-2	No	1400Hz
FBI Super Fast	2300Hz	DTMF	DTMF	4-3-1	No	2300Hz
Modem II	FSK	FSK	110	FSK	No	FSK
BFSK 2300/1400Hz		2300/1400Hz	FSK	42	FSK	No

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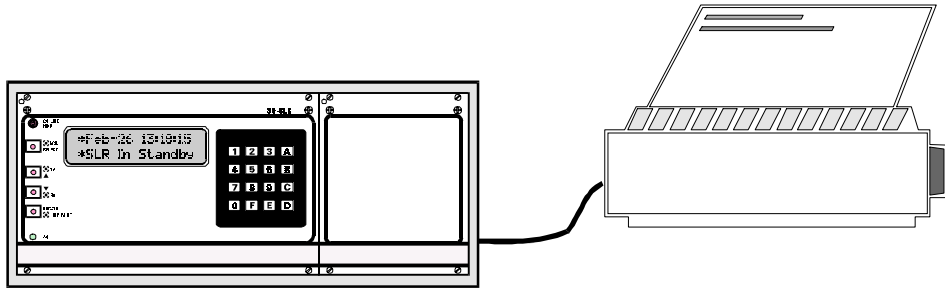


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ORDERING INFORMATION

SG-SLR

- Single-Line Receiver Digital
- Includes Desktop Card Cage with one 6-pin modular cable.



Recommended printer:

Panasonic KX-P1150	Part #CPU1150
Tandy DMP-206	Part #CPUDMP206
Star DP8340	Part # DCDP8340

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CABLES

PCBL10	Parallel printer cable, 10 feet.
SER10	Serial computer cable, 10 feet.



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COMMUNICATIONS
A Division of Sur-Gard Security Systems Ltd.

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INTRODUCTION AND OVERVIEW

SG-SLR





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