

# Remote Control and Display for TLR+ & SA-TLR+

**MRD1000 Operating instructions****Description**

Remote control unit and display for **TLR+** and **SA-TLR+** alarm receivers activity.

Made in self contained package similar to SA-TLR+. Removing cover allows unit to be mounted in PC's CD slot.

Built in memory stack of 800 to 1000 Events available for sequential search.

Displays all incoming alarms at time they are received.

Sets up alarm receiver operating parameters.

**Features**

- Remote control unit for TLR+ / SA-TLR+ receivers.
- Display on 2 lines of 20 characters.
- Incoming Event display with scroll back.
- Memory stack of 800+ Events.
- Four button touch pad for easy operation.
- Power fed by receiver.
- Receiver setup function.

**Specifications****Assembly:**

Rugged aluminum packaging for external use.

Dimensions (inches) : 5.73 W x 6.0 L x 1.48 H  
 Dimensions (mm) : 145.54 W x 152.4 L x 37.59 H  
 Cable (DB9) : 6 feet / 2 m.

PC CD slot chassis fitting

Dimensions : Market standard for CD slot

Basic unit

Display type : LCD 2 x 20 character lines  
 Display color : Green  
 Memory : 800 to 1000 Event stack  
 Cable (flat) : 12 inches/ 30 cm.  
 Cable (braided) : 3 pins for compatibility

**Memory / Event Logging:**

MRD1000 logs all signals normally sent to receiver printer. Memory is managed as a push down stack with 800 to 1000 Events. Number of Events in Stack is function of signal formats.

PC internal installation offers TLR+ connection with TLR+ chaining capability. Events received by all TLR+ in chain are logged and available for sequential scroll.

**Functions:**

All receiver setup commands are available on MRD1000.

Selectable modes:

Native mode  
 Ademco 685 mode  
 Surgard mode

MRD1000 sets up receiver to which it is directly connected.

Incoming Event display replaces all current display.

Memory stack sequential search.

**SA and TLR+ upgrade for MRD1000 compatibility (00-04)**

TLR+ / SA	Upgrade	Connector
TLR+ Rev 2	Not compatible	
TLR+ Rev 4-128	Eprom 4.2.12	3 pins wire
TLR+ Rev 4-256	Eprom 5.0.18	3 pins wire
TLR+ Rev 5-128	Eprom 4.2.12	Flat cable
TLR+ Rev 5-256	Eprom 5.0.18	Flat cable
TLR+ Rev 6-256	Eprom 5.0.18	3 pins wire
SA R4 R-128	Eprom 4.2.12	DB9
SA R4 -128	Eprom 4.2.12	DB9+Interface
SA R4 R-256	Eprom 5.0.18	DB9
SA R5 R-128	Eprom 4.2.12	DB9
SA R5 R-256	Eprom 5.0.18	DB9
SA R6 R-256	Eprom 5.0.18	DB9

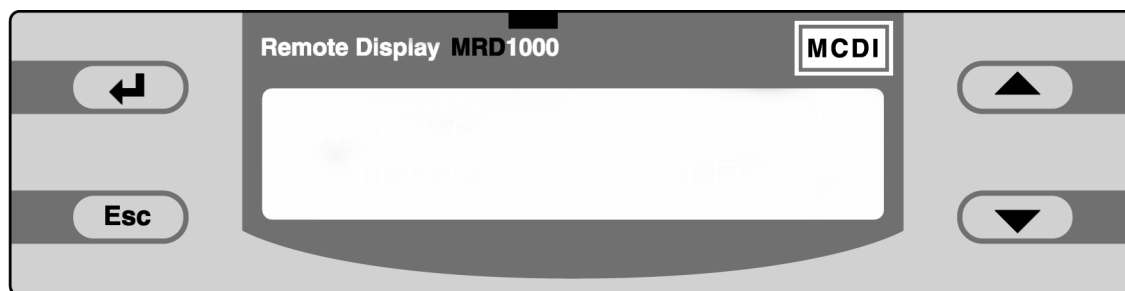
**Power Requirements:**

Power fed by alarm receiver 5 V. DC / 40 ma

Receiver must have permanent electrical support (AC or battery with charger) for MRD1000 to operate without interruption.

**MRD1000 Operating instructions****MRD1000**

Connect to Family of Alarm receivers SA-TLR+ and TLR+ (Revision 4 and up). Stocks and displays up to 1000 Events with scrolling capability. Has SA and TLR+ receiver setup function.

**Control buttons**

↵	Enter and ACK command
<b>Esc</b>	Exit Control mode to Display time / date and Event mode
^	UP movement in Scroll or Choice functions
∨	DN movement in Scroll or Choice functions
↵ and <b>Esc</b>	Enter control confirmation mode (Push and hold buttons firmly)
^ and ∨	Reset receiver — MRD-1000 parameters and buffer are not changed by a Reset Single Reset to restore Custom parameters Double reset to erase TLR+ buffer and restore default parameters
<b>R1</b>	Display brightness control.. Open MRD1000 cover and adjust with screwdriver. Factory setting is maximum

**Display status**

MRD1000 has 5 modes:

- |   |                                    |
|---|------------------------------------|
| 1. Inbound alarm display mode with computer active. | Automatic .                        |
| 2. Alarm processing mode with NO computer active.   | Automatic                          |
| 3. Event buffer scrolling mode                      | ESC to 4., Scroll using UP DN keys |
| 4. Time(hh:mm:ss) and Date display mode (yy/mm/dd)  | ESC from 5. or resting mode        |
| 5. TLR+ setup mode.                                 | ↵ and <b>Esc</b>                   |

Incoming signals have precedence and are immediately displayed. Previous display or action is put on hold.

When computer is present, inbound alarm is displayed.

If previous display was Time and Date mode, MRD1000 returns to it automatically.  
If previous mode was other, press ↵ to resume.

When computer is absent, inbound alarm is displayed AND ALARM PROCESSING IS REQUIRED.

If Printer/Buzzer option is set to **YES**, each inbound alarm triggers Buzzer to call for action. Acknowledge each alarm by pressing ↵. Buzzer stops buzzing when all alarms in TLR+ buffer have been acknowledged.

If Printer/Buzzer option is set to **NO**, only first inbound alarm triggers Buzzer to call for action. Acknowledge each alarm by pressing ↵. All alarms in TLR+ buffer must be acknowledged.

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**MRD1000 Operating instructions**


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**SA and TLR+ setup mode menu**

Languages (MRD1000 with eprom number 3.0.0. and up)

At start of configuration menu, language of the menu is selected by ^ and v. Once language is selected, continue the configuration in this language by pressing ↵.

Choice of languages is English, French, Spanish, and Portuguese. Cutting power to the MRD1000 will reset language to English.

**General**

Select Setup mode      ↵ and **Esc** (Push and hold buttons firmly)  
 Change choice: UP, DN  
 Change option: ↵      (ACK)  
 Exit control mode      ESC

**Display**

<b>Choice</b>	<b>Option</b>
IRQ	3,4,5,9,10,11,12,15
Receiver #	1..9
Line 1 #	1..9
Line 2 #	1..9
Heartbeat	YES / NO
Sescoa SS	YES / NO
3x2 Instead 4x1	YES / NO
Clear zero	YES / NO
Send year	YES / NO
Extended	YES / NO
Listen-in	_ or 1..F ("_" means no entry)
Check printer	YES / NO
Start handshake	1..7
1 =	1400hz / VFSK
2 =	SIA / CFSK
3 =	DUAL 1400hz / 2300hz
4 =	2300hz
5 =	Stratel
6 =	Telim
7 =	Robofon
Wait after Off Hook	YES / NO
2 rings	YES / NO
Caller ID PC	YES / NO Note: Caller Id available only on Assembly type 437
Caller ID Printer	YES / NO Note: Caller Id available only on Assembly type 437
Caller ID All	YES / NO Note: Caller Id available only on Assembly type 437
Date / Time	YES / NO
Send Year	YES / NO
Ack delay	1..9                      (Default = 1)
SA TLR+	YES / NO
Surgard mode	YES / NO
	YES      Caller ID All = YES automatically
	Date/time = YES
	ACK Delay = 1..9
Time Hour	0..23
Time Minute	0..59
Date Month	1..12
Date Day	1..31
Date Year	0..99

**CONNECTION**

In most cases, a printer needs to be connected to the TLR+ or SA-TLR+ when in operation with MRD1000. If no printer is in use, connect supplied adapter (DB25) or alternatively short pins 3 and 11 of TLR+ or SA-TLR+ printer connector.

**END**