

## **GENERAL INFORMATION:**

**Messer Company is polish manufacturer of remote monitoring systems.**

**We are offering wide range of devices and solutions basing on our own advanced protocols and other manufacturers the same well (we have all replacement devices for selected protocols).**

### **Radio systems with different protocols:**

- **VHF and UHF transmitters** (in 3 hardware versions)
- **radio repeaters** (with optional GPRS or Ethernet retransmission)
- **monitoring stations** (with optional GPRS or Ethernet receiving)

### **Phone system:**

- **cable monitoring** receivers from 1-4 phone lines (only DTMF protocols)

### **GPRS transmitters:**

- **gprs/sms transmitters** and receiver software (in development now)

### **Monitoring software:**

- **our stations diagnostic softwares**
- **stand alone simple operating software MesserLT**
- **NET multiaccess operating software MesserNET**

## **TRANSMITTERS VERSIONS:**

### **AVAILABLE PROTOCOL TRANSMITTERS' VERSIONS:**

- **Messer M3000** (Messer) for RMV-2002 receivers
- **Messer Plus** (Messer old protocol) for RMV-2003 receivers
- **Octal Lars, Decimal Lars1, Lars+** (KP Electronics) for RCI3300/4000 receivers
- **MilcolD, Visonic32B** (Visonic Ltd) for RC4000 receivers
- **Informer 12000** (C&K)
- **NR4K3** (Nokton)

### **AVAILABLE HARDWARE TRANSMITTERS' VERSIONS:**

- **UNR-01VHF** - basic 8 input version with simple alarm panel option.
- **UNR-01VHF/DTMF** – transmitter with additional phone input to receive alarm messages from alarm panel phone communicator like phone monitoring station (not available for Nokton protocol).
- **UNR-01VHF/RadioAlert** – transmitter integrated with 16 zone alarm system controlled (user service + programming) with LCD keypads.

#### **NOTE:**

**Milcol D** is a trademark of **Visonic Ltd** (!)

**LARS** and **LARS1** are trademarks of **KP Electronic Systems Ltd** (!)

**Informer** is a trademark of **C&K** (!)

## **TRANSMITTERS FEATURES:**

### **BASIC and DTMF UNR-01/VHF TRANSMITTER:**

#### □ **Software features**

- ✓ Easy RS-232 download programming (PC Windows software),
- ✓ All parameters modified by Installer (frequency channel, event codes, station address)
- ✓ Two object numbers handling\*,
- ✓ Two monitoring station operating\*,
- ✓ Two frequency operating\*,
- ✓ **On-board simple alarm panel in standard\***,
- ✓ AC and battery level control,
- ✓ Watch-dog supervisor,

#### □ **Hardware features**

- ✓ 8 NO/NC easy programmable inputs,
- ✓ DTMF interface (in DTMF hardware version only)
- ✓ On-board battery charger (non additional supplier is not required),
- ✓ Internal inputs for AC and battery level control,
- ✓ External siren alarm output,
- ✓ Sensor supply output,
- ✓ Hybrid power output with high class damage protection\*,
- ✓ High output power stability in wide supply voltage range,
- ✓ Frequency synthesizer,
- ✓ VHF (150÷175MHz) or UHF (432-435MHz) band,

\* features only in MESSER production transmitters available

## **RadioAlert 816 VERSION FEATURES:**



**RadioAlert 816 is an advanced Radio Monitoring Transmitter integrated with simple Alarm Panel powered by Multilanguage LCD Keypads.**

**Protocols handled with RadioAlert816 version are: Messer3000, Messer MPlus, KP-Lars, KP-Lars1 and Visonic-Milcol D.**

### **Zone Features**

- 8 hardwired sensor zones on transmitter's board and 2 zones on each keypad
- next 8 zones available on extension module

Programmable zone's options:

- N.O. or N.C. Zone
- 24 Hour Zone
- Silent or Siren activating Zone
- Radio-monitoring message activating Zone
- Bypassed Zone
- Lockout Zone
- Partition "A" or "B" Zone
- Partition "A" and "B" Zone (Common Zone)
- Stay Mode Zone
- Entry/Exit delayed Zones (0-60sec)
- Zone Alarms Counter

### **Output Features**

- 1 siren output (PGM 150mA)
- 1 sensor's power output (13.8VDC/300mA)

### **System Timers**

- Programmable Exit Delay (0-60)
- Programmable Entry Delay (0-60)
- Programmable Siren Activation (5-60sec)

### **Event Memory**

- Last 99 records

### **Users**

- 7 user's codes (1-6 digits)
- User can:
- Arm/Disarm System or Partition only
  - Arm/Disarm System in Stay or Away mode
  - Bypass selected zones (installer's enabled)
  - Panic, Medicine or Police buttons
  - Make siren test
  - Change all users' codes

### **Keypad Features**

- 4 Keypads support (LCD)
- Individual keypads addressing
- Keypads' Assignment to Partitions
- Double-pressed buttons:
  - Police
  - Fire
  - Medicine
- Siren test function

### **Programming method**

- Installer settings: PC software or keypad
- User settings: keypad
- Programming protected with password

## **STATIONS / REPEATERS:**

- **RADIO MONITORING SYSTEM MESSER System M3000:**
  - ✓ Radio Transmitters (w/ VHF or UHF synthesizer),
  - ✓ Two-Way Repeaters (1,2 or 3 frequency operating),
  - ✓ **Repeaters with GPRS/Ethernet retransmission option,**
  - ✓ Monitoring Stations with radio signal level supervising.
  
- **RADIO MONITORING STATIONS RMV-2003**  
*compatible with following protocols and systems:*
  - ✓ Messer 3000                    -        RMV-2003 System 3000 Messer Co.,
  - ✓ Lars                                -        RCI3300 KP Electronics,
  - ✓ Lars 1                               -        RCI4000 KP Electronics,
  - ✓ Milcol D, V32                   -        RC4000 Visonic Ltd,
  
- **RADIO MONITORING REPEATERS RPT-2003**  
*compatible with following protocols and stations:*
  - ✓ Messer M+                       -        RMV-2003 System M+ Messer Co.,
  - ✓ Messer 3000                       -        RMV-2003 System 3000 Messer Co.,
  - ✓ Milcol D, V32                       -        RC4000 Visonic Ltd,
  - ✓ Lars & Lars1                       -        RCI-3300 & RCI-4000 KP Electronics,
  
- **RADIO SIGNAL LEVEL MEASURING UNIT**  
*Dedicated for KP Lars1 or Lars systems*

## **MONITORING STATION FEATURES:**

### **RADIO MONITORING STATION RMV-2002/2:**

#### □ **Software features:**

- ✓ Messer UFR-M and M3000, Lars, Lars1, MilcolD or V32b radio protocol compatibility,
- ✓ Radio signal strength measurement
- ✓ Acknowledgement of the repeaters' messages (for our repeaters only),
- ✓ **Receiving messages sent by repeaters using optional GPRS or Ethernet interface,**
- ✓ Large received messages buffer,
- ✓ Several station address handling,
- ✓ Objects' number depends on protocol,
- ✓ Full message information on LCD display available,
- ✓ Automation computer communication supervisor (PC COM CONTROL),
- ✓ Several RS-232 protocols for automation software
- ✓ Back-up battery voltage level supervisor (SUPPLY CONTROL),
- ✓ 14VAC voltage supervisor

#### □ **Hardware features:**

- ✓ Four alarm outputs activated by the received messages,
- ✓ Two alarm inputs for any external units control,
- ✓ RS-232 for automation computer output,
- ✓ RAK 19" or small 19cm size box,
- ✓ Battery back-up power supplier (13.8V/7Ah),
- ✓ Transceiver with VHF (150÷175MHz) or UHF (432-435MHz) band,

## **REPEATER FEATURES:**

### **RADIO REPEATER RPT-2003.**

#### □ **Software features:**

- ✓ Messer UFR-M, Lars, Lars1, MilcolD or V32b radio protocol compatibility,
- ✓ Radio signal strength measurement (depend on protocol),
- ✓ Acknowledgement of the repeaters' messages (depend on protocol),
- ✓ **Sending messages to the station by optional GPRS or Ethernet interface,**
- ✓ Received messages buffer,
- ✓ Several station address handling,
- ✓ Repeater object number,
- ✓ Back-up battery voltage level supervisor (SUPPLY CONTROL),
- ✓ 14VAC voltage supervisor
- ✓ AC and battery status messaging,
- ✓ Repeater periodic tests messaging,
- ✓ Easy RS-232 download programming (PC Windows software),

#### □ **Hardware features:**

- ✓ Tamper alarm input,
- ✓ RS-232 output for download programming,
- ✓ Wall mounted metal box,
- ✓ Battery back-up power supplier (13.8V/7Ah)
- ✓ Transceiver with VHF (150÷175MHz) or UHF (432-435MHz) band,

## **PROTOCOL FEATURES SUMMARY:**

### □ **UFR-M System+/ System M3000 (Messer Co.):**

- ✓ Objects number: 4096/SA or 8192/SA (in M3000)
- ✓ Station address (SA): 16
- ✓ Available event codes number: 255
- ✓ Message code format: 00÷FF
- ✓ Alarm transmit time: ~600ms
- ✓ Periodic test transmit time: ~450ms
- ✓ Repeaters system: bi-directional (acknowledged)
- ✓ Signal level measurement for: test signals or all signals (in M3000)

### □ **Lars/Lars 1 (KP Electronics):**

- ✓ Objects number: 8192/SA
- ✓ Station address (SA): 4/8
- ✓ Available event codes number: 20
- ✓ Message code format: 00÷FF
- ✓ Transmit time: ~750ms
- ✓ Repeaters system: bi-directional (acknowledged)
- ✓ Signal level measurement for: test signals only

### □ **Milcol D (Visonic Ltd):**

- ✓ Objects number: 512/SA
- ✓ Station address (SA): 255
- ✓ Available event codes number: 16
- ✓ Message code format: 0÷F
- ✓ Transmit time: ~1.5sec
- ✓ Repeaters system: uni-directional (unacknowledged)
- ✓ Signal level measurement for: no



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*RADIO MONITORING PROFESSIONAL SOLUTIONS*