



NOVEMBER 2012



| DATA IS ENTERED FROM LEFT TO RIGHT. THE FACTORY DEFAULT SETTINGS ARE GIVEN BELOW THE OPTIONS.<br>REGISTER ZONE NUMBER WHAT TO ENTER   |  |  |  |
|---|--|--|--|
| INPUT<br>INVERT         1         2         3         4         5         6         7         8         1 = INPUT IS NORMALLY CLOSED<br>0 = INPUT IS NORMALLY OPEN<br>0 = INPUT IS NORMALLY OPEN<br>0 = INPUT IS NORMALLY OPEN  |  |  |  |
| INPUT DETECT       4         IME       0  |  |  |  |
| INPUT SIREN     5       I I I I I I I I I I I I I I     1       I I I I I I I I I I I I I I     1   |  |  |  |
| OPEN/CLOSE       6         REPORT       0   |  |  |  |
| ALARM/RESTORE 7<br>REPORT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |  |  |  |
| PROGRAMMING THE IDENTIFICATION REGISTERS (D), D) & A)   |  |  |  |
| I.D. CODE OF THE<br>TRANSMITTER OR<br>TEL. COMMUNICATOR   |  |  |  |
| ONLY WHEN USING RADIO OR TEL. COMMUNICATORS WITH UHF SMART CAT<br>RECEIVER FOR REMOTE CONTROL.<br>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  |  |  |  |
|   |  |  |  |
| ONLY WHEN USING RADIO OR TEL. COMMUNICATORS<br>WITH BUILT- IN UHF RECEIVER FOR REMOTE CONTROL.<br>1 2 3 4 5 6 7 8 9 10<br>DIP-SWITCH D<br>0 0 0 0 1 1 1 1 1 1<br>• OFF<br>BITS 5 TO 10 MUST<br>• OFF<br>FACTORY DEFAULTS  |  |  |  |
| RESET TO FACTORY DEFAULTS: HOLD KEY 1 UNTIL I IS DISPLAYED  |  |  |  |
| PROGRAMMING THE EXTENDED OPTION REGISTERS FOR EACH ZONE O   |  |  |  |
| ARMED/DISARMED         1         2         3         4         5         6         7         8           INPUTS         I |  |  |  |
| 24HRS (EMERGENCY)<br>INPUTS 0 5 1 2 3 4 5 6 7 8 1 = INPUT IS ALWAYS ACTIVE (24 HRS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |  |  |  |
| INPUTS REQUIRING 1 2 3 4 5 6 7 8  |  |  |  |
| VALUE IN SECONDS OF 1 2 3 4 5 6 7 8   |  |  |  |
|   |  |  |  |
| AUTO TEST INTERVAL 1 2 3 4 5 6 7 8<br>(IN HRS) 0 8 VALUE IN HOURS OF INTERVAL<br>BETWEEN SELF TESTS   |  |  |  |
|   |  |  |  |



## **RKF 4CH TRANSMITTER**

# RKF T4

The "RKF T4" is a microprocessor based RADIO TRANSMITTER. It is designed to perform the functions associated with the monitoring of alarm conditions and subsequent transmission to a CONTROL ROOM FOR ALARM MONITORING.

Following are the features that make the "RKF T4" the most versatile, efficient and innovative RADIO LINK in the security market:

- 1 Four 24Hr hard wired PROGRAMMABLE INPUTS.
- 2 Silent RADIO Remote PANIC button
- 3 -Sends the conditions of all 4 inputs when any of the INPUTS are triggered.
- 4 All INPUTS are programmable to suit special installation requirements.
- 5 Subscriber code and options fully programmable by the installer by making use of the M.A.M.I

SPRO1 PROGRAMMER

- 6 EEPROM memory for retention of options and code selections during "power-down".
- 7 Programmable to send a "check-in" transmission between 1 to 250 hours.
- 8 Programmable System Battery Low.
- 9 Inputs can be triggered by either a positive or negative signal.

A REMOTE PANIC BUTTON is available with the addition of the Microcat Receiver..

For complete flexibility the four wired inputs may be programmed to send a transmission whenever one of the following conditions occurs:

1.a) - When the external circuit is opened (Normally Closed circuit)

1.b) - When the external circuit is closed (Normally Open circuit)

1.c) - Both when the external circuit is being **opened and closed**.

For example : You may require that the particular circuit calls the control room both when an alarm occurs and when it is restored, or that a particular circuit calls the control room both when a door is opened or closed.

## **INSTALLATION NOTES :**

#### 1 - INPUT CONNECTIONS:

There are 4 inputs available on the BOARD (**1 TO 4**). These INPUTS are factoryprogrammed for NORMALLY-OPEN operation, that is: You need to APPLY 12 V (from the common 12V CONNECTION P+) to trigger the alarm.

If you require any of these to be NORMALLY-CLOSED (trigger on removing 12V), it is necessary to define these circuits in the INVERT register (see "PROGRAMMING THE RKF -T4"(key .3)) Entering "1" will change that circuit from N.O to N.C

4-RECEIVER CONNECTIONS: (for Remote Panic Button)

The external receiver (Micro-Cat - R0) must be connected before power up! Mount the receiver no more than five metres from the unit. 12 Volts DC for the receiver is available between (-) & P(+). The third connection, (RX), to the receiver is the data connection.

5-POWER SUPPLY: The unit works on a 12 V DC Supply. (Not less that 0.5mm cable)

**8 - BATTERY CONNECTIONS:** The standby battery ratings must be : 12v with a recommended capacity of 6.5 A/hr. The standby battery must be connected between **BATT(NEGATIVE)** and **BATT(POSITIVE)**. As a protection for battery polarity reversal, **crow-bar polarity protection has been implemented**. It may be therefore necessary to change the "BATTERY" fuse after connecting the battery incorrectly.

Guarantee DOES NOT cover damages caused by REVERSE/ INCORRECT connection to the battery.

#### PROGRAMMING THE RKF - T4 INSTALLER CODE

| THE RKF-T4 IS PROGRAMMED W   | ITH A "FACTORY | DEFAULT" SET OF OPTIONS.  |  |
|--|----------------|---|--|
| ALTHOUGH THE"FACTORY" OPTIONS REFLECT THE CHOICE OF THE MAJORITY OF INSTALLERS AND<br>END-USERS, PROPER OPERATION AND COMPLIANCE WITH SPECIFIC REQUIREMENTS CAN BE<br>ACHIEVED THROUGH REPROGRAMMING.  |                |   |  |
| THE PROGRAMMABLE OPTIONS ARE DIVIDED INTO 3 SECTIONS:  |                |   |  |
| - 1 - SYSTEM OPTION REGISTERS.<br>- 2 - SYSTEM I.D. CODES<br>- 3 - CIRCUIT (ZONE) OPTION REGISTERS.  |                |   |  |
| PROGRAMMING:   |                |   |  |
| <ol> <li>Connect the programmer (SPRO 1) as indicated in <i>FIG.02</i>.</li> <li>Hold down programming button on SPRO and apply power by connecting the 12V, release the programming button <u>WARNING: observe the polarity markings on the board.</u></li> <li>Press the # (ENTER) key on the programmer. The unit will "Lock" onto the 4channel TX and will, for a brief moment, display the product number (03) of the transmitter.</li> <li>Following a successful "LOCK ON ", an "F" will be displayed by the programmer.</li> <li>The system is now ready to program any of the registers indicated below.</li> <li>Enter # after programming each register.</li> </ol> |                |   |  |
|  |                |   |  |
| SECTION 1: SYSTEM OF   | TION REGISTE   |   |  |
| OPTIONS REGISTER NO. 1 0 1   | #              | NOTE: O= OFF  |  |
| ON= N/A  | OFF= N/A       | 01  |  |
| ON= N/A  | OFF= N/A       | 02 5  |  |
| ON= N/A  | OFF= N/A       | N 60  |  |
| ON= N/A  | OFF= N/A       | 04  |  |
| REPEATER BIT 1   |                |   |  |
| REPEATER BIT 2   |                |   |  |
|  |                |   |  |
| REPEATER BIT 4   | 0FF 🖑 0FF 🖑 0  | FF WOFF WOFF WON W 🔶 🔿 8 🛣  |  |
|  | <br>#          |   |  |
|  |                |   |  |
| IEW! ON- SEND FIX FORMAT   | OFF= SEND DT   |   |  |
|  |                |   |  |
|  | OFF= N/A       |   |  |
| ON= REPORT SYSTEM BATTERY LOW  |                |   |  |
| ON= N/A  | OFF= N/A       |   |  |
|  |                |   |  |
| ON= N/A  | OFF= N/A       |   |  |
|  |                | 0.0   |  |
|  |                |   |  |
| LOAD FACTORY DEFAULTS 3  | 7 #            | NOTE: THIS OPERATION WILL<br>ERASE ALL USER PROGRAMMING<br>AND RESET THE RKF T4 TO FACTORY<br>DEFAULT VALUES. |  |
| EXIT PROGRAMMING MODE 3  | 0 #            | THIS OPERATION WILL TERMINATE THE<br>PROGRAMMING SESSION.   |  |
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