Cimarron Technologies has developed an enhanced Man-Down Emergency Alarm System that offers a maximum potential for personnel safety and elimination of false reports. The system works in MDC-1200 and GE-STAR applications with the Cimarron C Plus decoder.

WHAT TYPE OF USER WOULD BENEFIT FROM A MAN-DOWN SYSTEM?

Any type of application where personnel are subject to working in a hazardous environment and might become physically incapacitated, including:

- POLICE
- PRISON
- SECURITY
- HAZARDOUS WASTE CLEAN-UP
- FIRE
- FACTORIES
- INDUSTRIAL
- FORESTRY

HOW DOES THE MAN-DOWN SYSTEM OPERATE?

Cimarron’s QE-1 and QE-2 encoders or the CDEU-1 encoder/decoder, configured for one of the many field selectable Man-Down operating parameters, is installed in a portable radio unit. A small, sealed mercury switch is mounted in the radio and wired to the encoder unit. When the radio is tilted in excess of 60º in any direction, the mercury switch is activated and triggers the encoder unit. A selected time sequence commences where, after a short period of time, a warning tone is sounded through the radio speaker alerting the user that a series of Man-Down messages are about to be transmitted to the dispatch center. If the radio is not returned to the upright position after another short time period, the transmission sequence begins. The warning tone is extremely important in eliminating inadvertent Man-Down transmissions. Once initiated, the Man-Down transmission sequence continues, even if the radio is up righted.

At the dispatcher center, the Man-Down Emergency message is received and decoded by one of Cimarron’s unique C Plus Series base decoder displays. The decoder will flash the unit identification on the display, sound an internal audible alarm, and display letters to indicate the critical message as Man-Down. The C Plus units also have a special relay output to activate an external device sounder or alarm.

In Two-Way systems, the C Plus dispatch display will transmit to the CDEU-1 Encoder/Decoder an auto acknowledge, which will cease the Man-Down cycle.
HOW DOES THE CIMARRON MAN-DOWN SYSTEM ENHANCE PERSONNEL SAFETY?

In the event a radio-equipped individual is rendered prone for any reason, the dispatch facility or alarm monitoring center will be immediately alerted and can react quickly in dispatching aid to the “downed” unit. Cimarron has designed the Man-Down system so that the user can customize the system with a full selection of field programmable features such as:

1. Transmission of Man-Down Messages at Timed Intervals.

   The QE-1 and QE-2 encoder or the CDEU-1 encoder/decoder can be programmed to send Man-Down messages five times at 10-second intervals or continuously send the message until the portable is shut off, the battery drains or the message is acknowledged. It can also be programmed to open the microphone and allow the dispatch center to monitor the activity in the area of the “downed” unit. The unit will wait for a clear channel before transmitting.


   Seven (7) field selectable Man-Down initiation time sequences are available.

3. GE-STAR and FleetSync units have a unique Man-Down message.

   The dispatch personnel will instantly recognize the incoming alarm as Man-Down.

4. Special C Plus Output.

   For external applications the C Plus can be used to provide emergency shut-off of machinery in industrial applications or activate an external alarm. Internally the C Plus has a programmable audio alert tone and a flashing display.

MANUAL EMERGENCY ALARM

Cimarron Technologies’ QE-1 and QE-2 encoders or the CDEU-1 encoder/decoder, includes a switch-activated emergency alarm message to compliment the Man-Down feature. The manual EM alarm is especially popular in the areas of public safety, prisons, security, etc.

Typically a factory-installed switch on the portable radio is used to initiate the emergency alarm.

As in Cimarron’s Man-Down feature, many various field programmable parameters are also available for the manual EM message, including the C Plus decoder’s unique message alarm decoding at the dispatch center. The manual EM alarm is identified with a letter “E” following the Unit ID Number.