

# SECTION 10. SECURITY SYSTEM STANDARDS

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The security system at Mt. Home AFB consists of a central computer located at Building 1013 – Law Enforcement Building. The computer communicates with all security panels located on base. This computer will only support security panels manufactured by Mycroft Technologies. Model number ACS-4400-X is of sufficient capacity to support most building security requirements. The prom chips in this panel must be compatible with the central computer software, which was developed by SMF Systems, San Francisco, Calif. In order to maintain coordinated system growth, security panels shall be compatible with the base IDS system.

All security panels will be located in a secure area of the building. Door contacts and motion detectors will be zoned separately. Under the floor or above the ceiling motion detectors or other sensors will be zoned separately. Duress alarm sensors and duct detectors will also be zoned separately. Every sensor shall be home run wired to the ACS-4400 security panel.

Electrical metal tubing (E.M.T.) will be used during security system installation. Install a 19-mm (¾-inch) conduit (E.M.T) from the security panel to the building's main telephone backboard (home run panel). Route a 24 AWG four wire Cat 5 telephone cable in this conduit.

Magnetic card readers with keypads shall be installed to permit entry into a secure area. Mycroft Technologies card reader ASC/1150 is supported by our system. The keypad shall be mounted on the outside of the primary entrance into the classified area. If the keypad is mounted on an external wall exposed to the elements, a NEMA enclosure with hinged cover will be installed to protect the card reader. If at all possible the keypad should be mounted in a vestibule.

Style of card reader used at Mountain Home AFB is mandatory: Mycroft Technologies ACS 1150 magnetic card reader / keypad. This style of card reader interfaces with the Mycroft 4400 DGP through an RS-485 serial communication port at the back of the reader. The annunciated lights produce red, green and amber colors for access. It has a 12-digit keypad arranged in two columns with short beeps to echo the keystrokes.

It is recommended the following hardware be used during installation:

**Microwave Motion Detectors:** DUALTEC 450T this series of detector senses motion and passive infrared (body heat). When the PIR detector senses a change in infrared the microwave instantly becomes alert. If motion is detected within a specific time period the sensor will alarm. It takes motion as well as heat to send an alarm once the system is armed. Maximum range is 15.2 meters by 12.2 meters (50 feet by 40 feet) which is

obtained at a mounting height of 2.3 cm (7 feet 6 inches). Sensitivity is between 2 and 4 steps within field of view.

**Magnetic Door Switch:** SENTROL 2507-A. The magnet closes a set of contacts sealed in the stationary portion of the two piece switch. The magnet is mounted to the door and the switched portion to the door jam. When the security system is armed and the door opened, it also opens a normally closed circuit.

**Duress Switch:** ADEMCO 269. Personnel activated switch with a keyed reset. Like operation to the magnetic switch, only difference being that it is manually operated and reset with a key.

**Security Cable:** BELDON 9418. 18-gauge 4-conductor cable is used on all devices, except on card readers where the cable size must be 20-gauge 4 conductor according to the C.O.E

The Civil Engineering EMCS Shop will perform all software programming necessary for the central computer to communicate with the building ACS-4400 security panel.  
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