

# Premise Control Unit with Capacitance Detection

Model: CU5-17

Revised: April 2002

## Product Description

The CU5-17 Premise Control Unit (*Class 'A' only*) with Capacitance Detection is designed to protect a surface or enclosure from attempted entry by detecting any change in capacitance, caused by the attempted entry and generating an alarm signal. Some types of surfaces or enclosures that can be protected are office equipment, stockrooms, file cabinets, safes, air ducts and any other surfaces or enclosures not grounded.

The basic system consists of a control unit (*Module CU5-17*) and a sensor loop (*wire connected*) to an ungrounded surface or object to be protected. A series of wire grids or panels may be used outside the surface or object if it is grounded. The system produces an alarm signal if an intruder comes within range of the sensor loop.

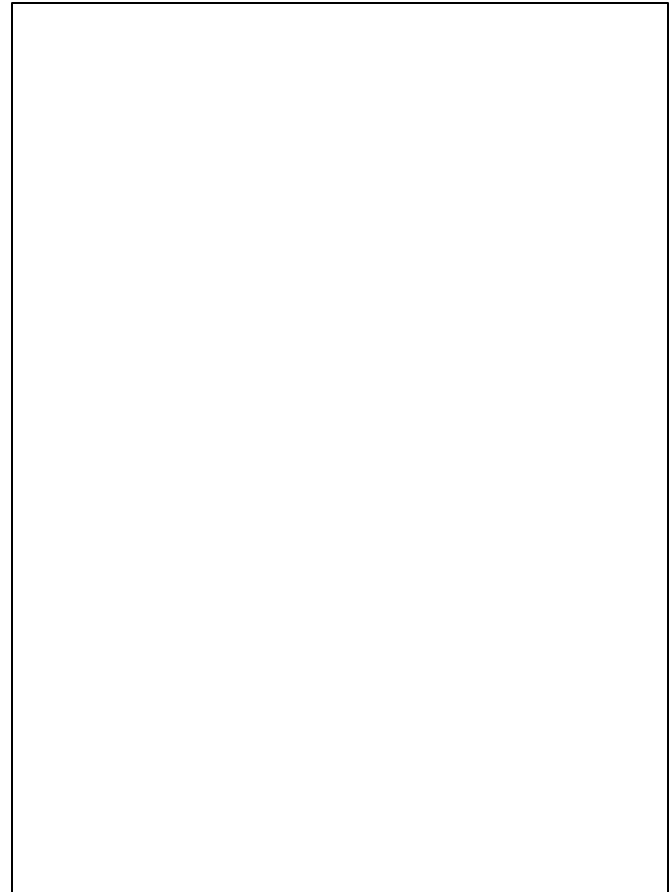
Provisions are also included for the connection of balanced magnetic door switches or other detections devices to produce an alarm condition. The alarm indication appears on a remotely located receiver module.

## Product Features

- ◆ Sturdy structural support consisting of a 16 gauge steel enclosure.
- ◆ Standardized printed circuit motherboard used for all control unit/transmission module/detector module configurations. The interface to all 'outside world' connections is via screw type barrier strips.
- ◆ Reconfiguration plug-in jumpers allow easily implemented changes to the system configuration.
- ◆ Accommodates (*plug compatibility*) industry standard transmission modules and meets DIAM 50-3, DCID 1-21 and US Army Reg. 381-14.
- ◆ Configurability for separate tamper and alarm loops for use with Desplex series termination modules.
- ◆ Access/secure/AC OK Alarm status LED's.
- ◆ A rechargeable GEL-Cell battery to provide emergency power if AC power is removed. This battery will power the capacitance detector system for at least 12 hours.
- ◆ Sensor loop tamper protection is provided in both access and secure modes of operation with LED annunciation for either.
- ◆ Auto balancing capability. There is NO balance adjustments (*manufacturing or user/field*) on the CU5-13 capacitance detection module.
- ◆ Sensitivity control to set how close a body (*or object*) must approach an element in the detection loop to produce an alarm condition.
- ◆ 12VDC 0.5 AMP auxilliary power supply to power optional motion detectors.

## Optional

- ◆ 24-hour backup battery (BT-24).
- ◆ Duct wire grid kit (WGD).
- ◆ SCIF Thermal Printer (PTR5).



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## Product Specifications

Height = 12.35 inches  
Width = 9.38 inches  
Depth = 3.84 inches  
Weight = 12.00 pounds

Electrical = 16 VAC input and accompanying  
12V rechargeable battery.

Operational Environment = 0 - 50 Degrees Celsius  
10 - 90% R.H. (*non-condensing*)

Standby Capability = 8 Hours, dependent on termination  
module/detection module  
configuration/loading.

ORDERING INFORMATION: P/N 425827-0001

Digitize, Inc.

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