

# GS614/GS615 Single Multicount Analyser Installation Sheet

# Test procedure for determining optimum spacing for Aritech sensors

As buildings structures are manufactured from different materials, their ability to transmit high frequency shocks differ.

Materials such as glass, metal, concrete, and hardwood are relatively dense and therefore have good conductivity characteristics and provide for good sensitivity. Softer materials such as plaster, plasterboard, and softwood are less dense in their composition because of the high content of air, therefore high frequency shocks in these materials are damped reducing the sensitivity range. Sensors on these structures must be mounted closer together. It is necessary therefore to test each structure for optimum spacing.

- 1. Mount sensor horizontally or vertically in the required position. Ensure that the sensor name is in the correct orientation.
- 2. Connect to the GS615 analyser board, ensure that if an end-of-line resistor is supplied with the analyser board, that this is connected in series with the sensor.
- 3. When the sensor loop is closed, the LED (lamp) on the analyser should go out.
- 4. Create small sharp shock signals on the structure to be protected using a screwdriver handle.

The LED on the analyser should light, indicating that the analyser is receiving signals from the sensor.

- 5. If the LED does not light, move sensors closer together and use more sensors where necessary.
- 6. Adjust sensitivity pot on analyser to trip the relay when one large shock is made to the structure. This shock should be just below the level necessary to smash the structure.
- Select the pulse count number required by means of the selector plug. These small shocks are counted at onesecond intervals and stored in a digital memory for 30 seconds. Each time a small shock is seen, the LED will light for one second. This pulse count facility is designed to detect a thief gently forcing entry.

When the analyser board receives either the large gross attack signal or the programmed number of pulse counts, the LED will latch on for 5 seconds and the alarm relay will drop out activating the alarm.

This now indicates that the optimum spacing has been achieved.

#### **GS614 Single Multicount Analyser**



GS614 is a multicount analyser, which in addition to the amplitude adjustment has a programmable 1-second count facility, which allows the alarm to be activated after a series of small shock are received at 1-second intervals. The counter is programmed for 2, 3, 4, or 8 counts within a fixed time period of approximately 30 seconds. The LED will illuminate for 1 second when small shocks are seen by the sensor loop. These shocks are counted and held in the memory for approximately 30 seconds. If the programmed number of small shocks is received, the alarm activates, or if one shock larger than the setting of the potentiometer is received, the alarm will activate.

The pulse counter plug can be removed to ensure that the analyser only responds to gross attack.

## **GS615 Single Multicount Analyser**



The Single Multi Count Analyser has an amplitude setting, which allows the installer the flexibility of adjusting the level of a single shock to give an alarm activation. The analyser also has a programmable 1-second count facility, which enables the alarm to be activated after a series of small shock are received at 1-second intervals. The counter is programmable between 1 and 9 counts within a fixed time period of approximately 30 seconds.

The LED will illuminate for one second when small shocks are seen by the sensor loop. These shocks are counted and held in the memory for approximately 30 seconds. If the programmed number of small shocks is received, the alarm activates, or if one shock larger than the setting of the potentiometer is received, the alarm will activate.

GS615 also has manual reset facility and additional lightening protection features.

The pulse counter plug can be removed to ensure that the analyser only responds to gross attack.

### **Specification**

	GS610 GS611 GS612	GS614 GS615	GS620
Supply voltage	The voltage is critical to the reliability of the sensor and is supplied by the Aritech analyser	10 to 15 VDC	9 to 15 VDC
Current: Quiescent Alarm	The correct current in the sensor loop is critical to the operation reliability of the sensor and is supplied by the Aritech analyser	35 mA 12 mA	6 mA 12 mA
Sensitivity setting gross attack	_	Potentio- meter	Potentio- meter
Pulse count setting	-	GS614: 2, 3, 4, 8 GS615: 1 to 9	2, 3, 4, 8
Indicator	_	Red LED	Red LED

	GS610 GS611 GS612	GS614 GS615	GS620
Alarm relay contact rating	_	1 A at 12 VDC	1 A at 12 VDC
Tamper relay contact rating	_	1 A at 12 VDC	1 A at 12 VDC
Operating temperature	−20 to +50°C	−10 to +60°C	−10 to +60°C
Maximum relative humidity	90%	90%	90%

# **Regulatory information**

Manufacturer	PLACED ON THE MARKET BY: Carrier Fire & Security Americas Corporation Inc. 13995 Pasteur Blvd Palm Beach Gardens, FL 33418, USA
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