

# C.Scope SGV4-D Signal Generator

## Product Images

Product Code: S83-2092





**C.SCOPE**  
Cable and Grounding Equipment

**SIGNAL GENERATOR / TRANSMITTER FEATURES**

SIGNAL GENERATOR/TRANSMITTER FEATURES	SGA4	SGV4	MX4
One Watt Power	•	•	•
Power Levels	2	4	4
Generator / Transmitter Frequencies	•	•	•
- 33-131kHz	Connected at 33-131kHz Induced at 33kHz only	Connected and Induced	Connected and Induced
- 33kHz	-	-	Connected and Induced
- 8kHz	-	-	Connected and Induced
- 131kHz	-	-	Connected and Induced
- 40kHz	-	-	Connected Connected
Pulsed / Continuous Output Signal	•	•	•
Signal Connection Modes	•	•	•
- Direct Connection	•	•	•
- Wapground	•	•	•
- Induction	•	•	•
Automatic Daily Self Test	-	•	•
Data Logging	-	•	•
Data Transfer via USB	-	•	•
High Resolution Backlit Liquid Crystal Display	-	•	•
No Periodic Calibration <sup>1</sup>	•	•	•
Three Year Warranty <sup>2</sup>	•	•	•
Batteries <sup>3</sup> 4 x D LR20 Alkaline or NiMH Rechargeable batteries housed in a secure battery compartment	•	•	•
In-Built Accessory Tray <sup>4</sup>	•	•	•
IP65	•	•	•
Network Rail Approved	-	•	•

1. No Periodic Calibration: The SGA4, SGV4 and MX4 do not require periodic recalibration.  
A Product Validation Certificate can be printed using the PC Toolkit.  
C.SCOPE authorised Service Centres are able to provide third party Test and Calibration Certification should you require it to comply with client or internal regulations.

2. Three Year warranty. Conditions apply.

3. Batteries: 4 x D LR20 Alkaline or NiMH Rechargeable batteries housed in a secure battery compartment.

4. Accessory Tray includes Direct Connection Lead, Auxiliary 15m Earth Lead, Connection Magnets, Earth Stake and Instruction Manual.

## Short Description

The CScope SGV4 Signal Generator is designed for use alongside a CXL4 or DXL4 Cable Avoidance Tool. It enables significantly more underground utilities to be detected including street lighting cables.

### SIMULTANEOUS DUAL-FREQUENCY

The simultaneous dual-frequency 33kHz and 131kHz signal output of the Signal Generators is ideal for maximising the number of buried services that can be energised and then detected.

The SGV4 Signal Generator can apply the dual frequency signal without direct connection to buried services, using either a Signal Clamp or the simple induction method from ground level, providing a significant improvement in the detection of the smaller diameter or poorly earthed cables.

### THREE SIGNAL APPLICATION TECHNIQUES

The SGV4 offers three alternative ways to apply a Signal Generator signal:

Direct Connection allows specific pipes or cables to be individually traced, identified and their depths measured. The use of Signal Clamps, Signal Injectors and Direct Connection leads make this mode the most effective method for pinpointing pipes and cables.

If it is difficult or inconvenient to use Direct Connection, then the Wraparound technique can be utilised to successfully energise a street or car park lighting cable.

Induction allows the Signal Generator to induce a detectable and traceable signal to previously unknown, undetected or inaccessible underground metal pipes or cables.

### **HIGH POWER SIGNAL**

The fully adjustable One Watt Power Output of the SGV4 means that deeper and less conducting pipes and cables can be effectively energised and then traced over ever longer distances.

It also features a **FOUR position power level adjustment** so the operator has total control of how much power is in use and when.

### **PULSED/CONTINUOUS SIGNAL OUTPUT**

A **Pulsed or Continuous signal output** allows operators to switch to the Pulsed Mode at the push of a button in high interference situations and keep on tracing. The SGV4 has a **clear audible signal output** to indicate when it is in operation.

A useful in-built **audio mute control** is also included.

### **DATA LOGGING**

To compliment and support in-built data logging on the Cable Avoidance Tools, the SGV4 Signal Generator also has full data logging capability. A years worth of data can be stored, in normal usage, on both the Locator and Signal Generator. This can be conveniently transferred at any time via a USB to a supervisors PC for analysis.

### **CALIBRATION**

The SGV4 Signal Generators do not require periodic recalibration. A fully Automatic Daily Self Test (ADST) tests and confirms that they are functioning at their optimum level each day.

### **AUTOMATIC DAILY SELF TEST (ADST)**

The SGV4 Signal Generators perform a comprehensive Automatic Daily Self Test (ADST).

At the start of each day of use, a positive Automatic Daily Self Test result gives confirmation to the operator that the kit is working at the optimum level.

The result of this test is recorded and stored on memory within the products in-built data files and can be downloaded onto a PC at any time within the following 12 months\*.

### **PRODUCT VALIDATION CERTIFICATION**

These test results can be used to produce a Product Validation Certificate using the C.Scope PC Toolkit. In addition, any results of the Self Test that have been carried out in the last twelve months\* are available. The PC Toolkit can also be used to view and print a copy of the original factory Calibration Certificate.

C.Scope authorised Service Centres are also able to provide third-party Test and Calibration Certification should you require it to comply with client or internal requirements.

### **HIGH RESOLUTION BACKLIT DIGITAL DISPLAY**

The SGV4 has a large, clear and easy to read backlit LCD mounted behind a protective polycarbonate lens. The display indicates functions selected, power level, connection quality and battery condition. It also displays the Automatic Daily Self Test results.

## ROBUST AND DURABLE CONSTRUCTION

The SGV4s twin wall construction is robust and durable. It also provides IP65 standard protection against dust and water ingress.

## ACCESSORY TRAY

The SGV4 Signal Generator has a large detachable accessory tray as its base. It can house not only the standard accessories (Direct Connection Leads, Earth Stake, Connection Magnets, 10m Auxiliary Earth Lead) and the Instruction Manual but also many of the optional extras such as Signal Clamps, Sondes and Signal Injectors.

## THREE YEAR WARRANTY

The SGV4 comes with a three year Warranty (conditions apply).

## Features

- One Watt 4-Level adjustable Power Output
- Simultaneous 33+131kHz Signal
- Pulsed or Continuous Output Signal
- Three Signal Application Techniques:  
*Direct Connection / Wraparound / Induction*
- Automatic Daily Self Test
- Data Logging of all Signal Generator activity
- Data Transfer by USB
- High Resolution Backlit Liquid Crystal Display
- No periodic Calibration required
- Product Validation Certificate available
- In-build Accessory Tray
- Network Rail Approved

Ref: 100566

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