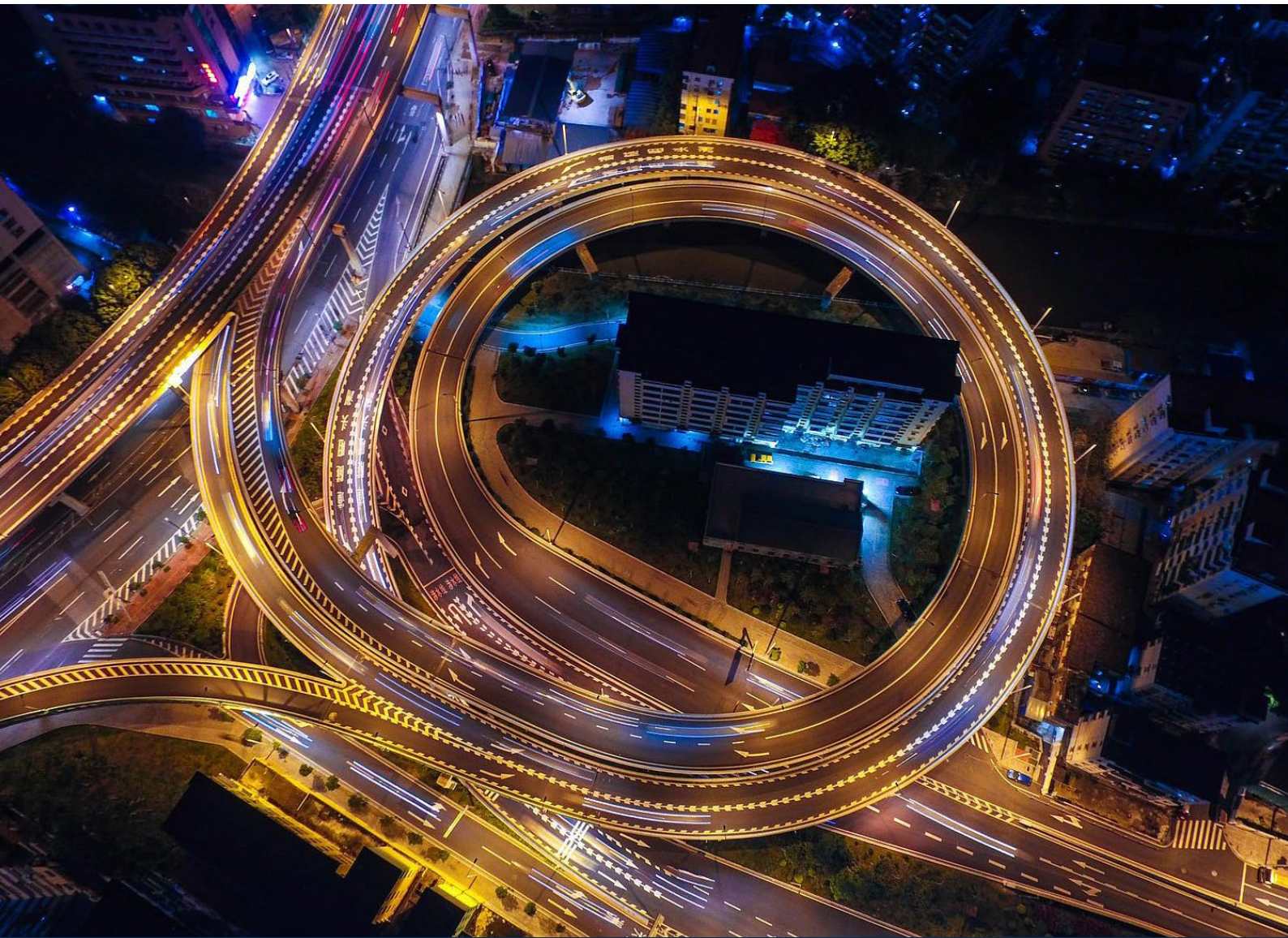


Cable Smart - Autoloop



Why choose the Cable Smart Autoloop?

The Cable Smart system provides a continuous regime of monitoring to determine the safety of private and public electrical networks. The system consists of two elements, a GridKey MCU LV monitoring device which is installed in a feeder pillar and measures voltage and current on up to 18 outgoing circuits and the Autoloop devices which are typically mounted at the end of each of these circuits.

The MCU and Autoloop both have an embedded GSM modem which communicates securely with a cloud based data centre where data is collected and analysed to provide an automated electrical safety report and also other analytics on the electrical network.

The Autoloop device has all the normal test functionality of a hand-held loop tester, normally used to do manual safety testing, but with the addition of a processor and modem all mounted in an IP rated cabinet designed to be fitted inside a standard lighting column or other electrical cabinet. The device has a screw-on antenna although options exist for external antenna fits if the GSM network signal strength is low.

The Autoloop measures single phase circuits and the only connections required are live, neutral and earth which are typically wired into the column cut-out. This will power the device, which then connects to the GSM network, obtains a date and time stamp and then automatically carries out a periodic electrical test and transmits the results to the GridKey Data Centre.

Configuration of the Autoloop is via a simple web-based app which can run on any GSM connected tablet or PC. A secure log-in is required to access the app which is available from GridKey. The app is integrated with the analytics running in the data centre so that various alarms can be generated – these can be either seen in real time on the data centre or they can be produced in a report which is generated automatically every 24 hours.



Autoloop installed in a lighting column



Specifications

Characteristics

Parameters reported	No trip LOOP L-E Test AC Voltage VLN-VLE-VNE Future capability: High Current L-E loop test High current, high resolution L-E loop test High current, high resolution L-N loop test
Operating voltage range	90v-270v, 47-52Hz
Voltage accuracy	± 3%
No trip L-E loop test	± 5%
Measurement reports	Every 10 minutes to every 24 hours - can be changed locally or remotely manual remote test command facility
Status reports	Every 10 minutes to every 24 hours - can be changed locally or remotely

Physical

Dimensions (excluding antenna)	223 (H) x 90 (W) x 61 (D)
Antenna dimensions	55mm
IP rating	IP54
Weight	545g
Cable length	50cm

On-site Install and Configuration

Autoloop configuration tool	Accessed via secure log-in on GridKey Data Centre. Can also be configured remotely rather than on-site
QR code	Enhanced QR code fitted to box to minimise need for data input when configuring unit
Site testing	Single multi-colour LED - indicates green when system is working (typically takes less than 1 minute from power up)

Safety and Compliance

Unit safety features	Thermal cut-out, threshold values checked before carrying out loop test
Overvoltage category	CAT III 500V CAT IV 300V
Safety compliance	BSEN 61010-2-030:2010
EMC compliance	BSEN 61326-2-2:2021
Safety compliance	UKCA and CE Marked, Dual Insulated

For more information about GridKey please contact us:

Website: www.gridkey.co.uk

Email: info@gridkey.co.uk

Phone: +44 (0)1268 850000