DEXGREEN

SmartSwitch

USER MANUAL

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TEST ADAPTER | SmartSwitch

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STARTER KIT CONTENTS

Please check your kit for all the components shown here:

CONVENIENT CARRY CASE

ADDITIONAL TEST LEADS ARE ALSO AVAILABLE, INCLUDING:

- *PSTN Test Lead*
- *ECM Test Lead*
- *25-Pair Bix Test Lead*

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nqa ISO 9001 QUALITY MANAGEMENT

nqa ISO 14001 ENVIRONMENTAL MANAGEMENT

TEST ADAPTER | SmartSwitch

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1. SAFETY WARNING

The SmartSwitch Test Adapter must only be used for the appropriate testing outlined in the guidelines below. Failing to do so may damage the product or impair its protection or functionality.

The SmartSwitch Test Adapter must be switched to the **monitor** (centre) position and plugged into the module before connection is established. Ensure all test equipment or instruments are removed from the SmartSwitch Test Adapter before the lead is either inserted or withdrawn from the module. The test adapter's protection may be compromised if these steps are not followed.

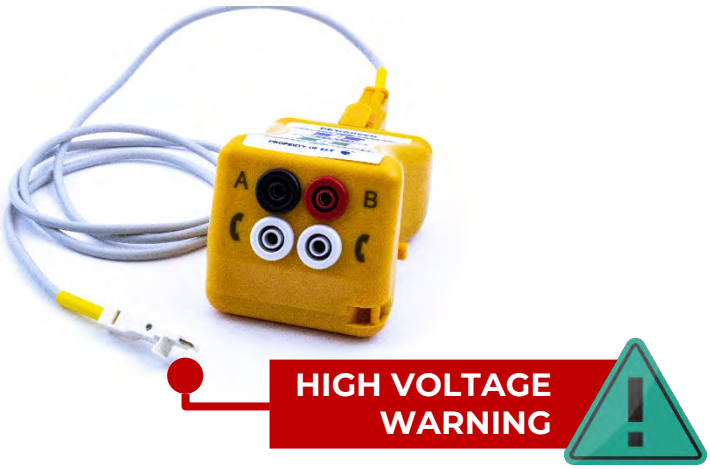
The SmartSwitch Test Adapter offers the greatest protection after being plugged in, with all connections made. Incorrect handling of the leads, plugs or socket contacts may result in insufficient protection from voltages involved in testing.

Electrical Hazard

When making any connection with the SmartSwitch Test Adapter, be wary of any potential risks, including high voltages on the terminal unit, cable pairs or test leads.

For all users, please be aware: Any electrical or electronic system may present hazardous voltage levels. When making a connection with the SmartSwitch Test Adapter, please take great care and avoid direct contact with any potentially live parts.

Pay special attention to the contact points on the SmartSwitch Test Adapter highlighted below:



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2. FUNCTIONS

Intended Use

The SmartSwitch Test Adapter is intended for use by field technicians and engineers. The test adapter is designed to function nominally when exposed to telecommunications network voltages.

Should a fault condition occur with hazardous voltages on the network, the SmartSwitch Test Adapter offers protection to field technicians and engineers in the form of basic insulation to a working voltage of **300 Vrms CAT II**.

The SmartSwitch Test Adapter is a connection tool for telecommunications networks. The unit has a switch which enables the technician to access a cable pair at an MDF, or CCU, etc., and in turn monitor the cable pair before performing any test.

An operator then uses the switch to select the direction to conduct a test from this test point, either back towards the **Exchange** or out towards the **Customer**.

The test adapter can obtain access simultaneously with the exchange and customer sides.

Main Features

The SmartSwitch Test Adapter allows the connection of any standard test instrument to a telecommunication or data network via:

- Line Access, non-interrupting, Monitoring
- Access to the Exchange side by simple switching, without changing lead connections
- Access to the Customer side by simple switching, without changing lead connections
- Access to both the Exchange and Customer individually at the same time by simple switching, without changing lead connections
- Safety of the operator from non-standard, dangerous voltages on the line

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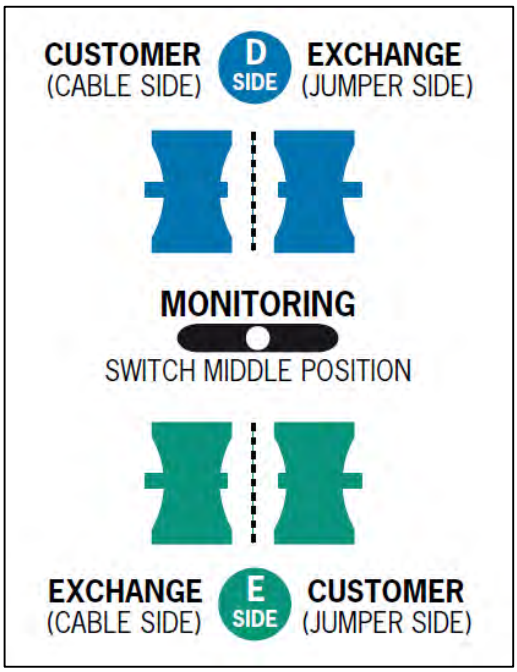
2. FUNCTIONS *CONTINUED*



Functions Performed

The SmartSwitch Test Adapter does not carry out any testing itself. Rather, it allows different testing equipment to gain access to the network.

When switched to the **monitor** position, with the appropriate access plug, it can be inserted into the matching module and allows the technician to monitor the line in question. This test is usually conducted with a buttphone, or lineman's test set.

By moving the switch through the available positions marked on the housing, the technician can carry out further testing with varying types of test equipment to determine line conditions.

Depending on which way the Module and Access plug are setup, the operator can select, with the switch, the **Exchange** or **Customer** side for testing.

By selecting the Exchange side, lines can be assessed using the auto test feature. When the Customer Side is selected, testing or checks can be carried out in that direction.

In general, the SmartSwitch Test Adapter, with all its optional plugs, is useful for any technician or engineer in the performance of their duties, where access to a copper line is required at any test point along the line. The SmartSwitch can be used at any point between the exchange and the customer's premises.

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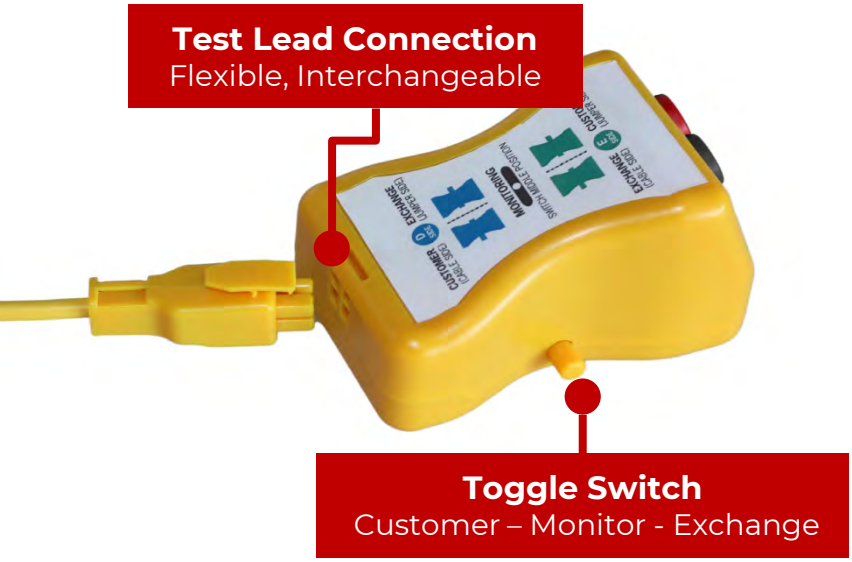
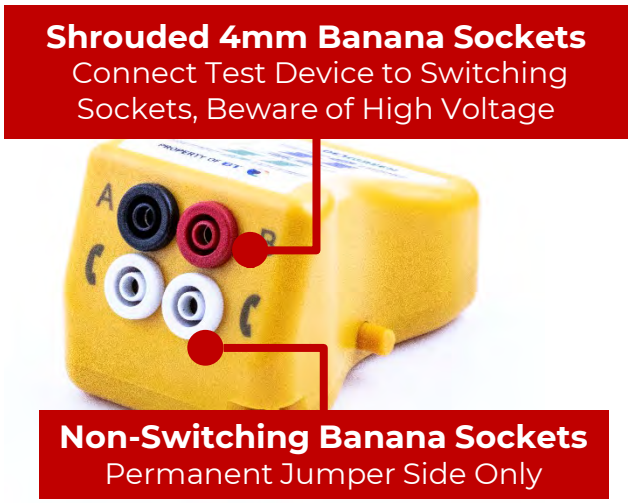
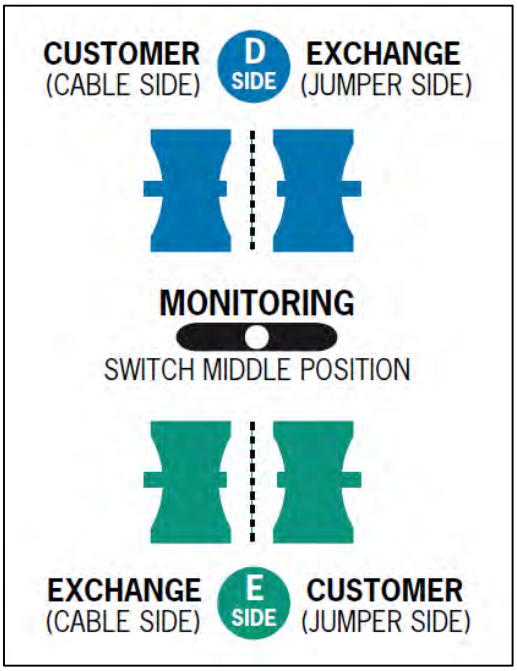
3. GENERAL OPERATION





The SmartSwitch Test Adapter with the appropriate plug can be used with any test, measure or fault location instrument that is fitted with suitably protected 4mm, male banana plugs that will not exceed the specifications of this lead.

Please see specification table at the end of this document for detailed figures.



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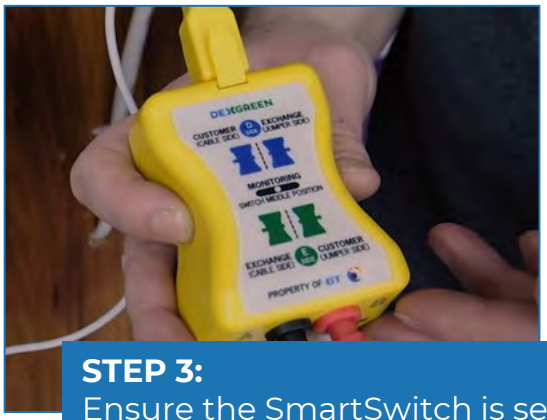
4. STEP-BY-STEP

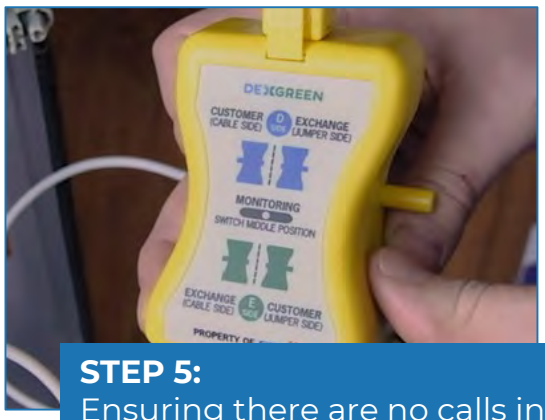
STEP 1:
Connect the required test lead to your SmartSwitch Test Adapter.

STEP 2:
Connect your compatible test equipment using the black and red 4mm banana sockets.

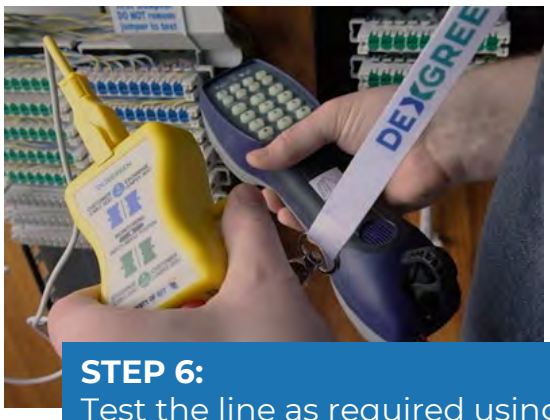


STEP 3:
Ensure the SmartSwitch is set to **MONITOR** mode, the toggle switch is in the centre position.

STEP 4:
Connect the test lead to the line you wish to monitor.



STEP 5:
Ensuring there are no calls in progress, switch to the required side – *Customer* or *Exchange*. Follow the affixed switch operation diagram.



STEP 6:
Test the line as required using a butt phone or other testing device.

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5. SPECIFICATIONS

ELECTRICAL		
Voltage	**Maximum 500V DC**	
Current	**Maximum 200mA**	
Insulation Resistance	**> 20 GΩ**	
Volumet Resistance	**< 1Ω**	
Transient Over Voltage	**Maximum 2500V (Rating: Cat II)**	
ENVIRONMENTAL CONDITIONS		
Approved Usage Location	**Indoor and Outdoor**	
Temperature	Operating	**-20°C** to **+50°C**
	Storage	**-40°C** to **+70°C**
Humidity	**95% RH Non-Condensing**	
PHYSICAL		
Dimensions (mm)	**92 x 60 x 56**	
Weight (g)	**110**	
Colour	**Traffic Yellow (RAL 1023)**	

6. TEST LEAD CODE REFERENCE

Below is a list of available test leads and their associated item codes.

DESCRIPTION	ITEM CODE
SmartSwitch Starter Kit *Includes LSA-TL, Krone and Quante Test Leads*	104930
SmartSwitch (no test leads)	104928
LSA-TL Tool-less Test Lead	104929
Krone Test Lead S237	104931
Quante Test Lead SID	104932
PSTN Test Lead	104933
ECM Test Lead	104934
25-Pair Bix Test Lead	104935

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