



Hexatronic

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8-way Duct Integrity Test Kit

**Hexatronic Duct  
Integrity Testing  
User Manual**

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## 1. Introduction

This manual provides complete guidance for the safe and efficient use of the 8-Way Micro duct Integrity Tester. It is designed for both field and workshop applications, enabling installers to verify duct integrity quickly, prevent costly fiber damage, and comply with contractual proof testing requirements. The instructions within cover preparation, operation, cleaning, testing, and safe disconnection procedures.

### 1.1 Purpose of the manual

The purpose of this manual is to deliver clear, step-by-step instructions for operating the 8-Way Micro duct Integrity Tester, along with essential safety information, maintenance guidelines, and troubleshooting tips. It ensures operators can achieve accurate and repeatable test results while safeguarding both equipment and personnel.

### 1.2 Intended use

The 8-Way Micro duct Integrity Tester is intended for testing 7 mm or 8 mm installed ducts, with the capability to test multiple ducts simultaneously through eight outlet ports. When used in conjunction with calibration darts and OneShots, it allows for contractual proof testing and duct viability verification before fiber installation. The tester is suitable for rapid sequential multi-duct testing and incorporates built-in safety features to prevent overpressurization.

### 1.3 Safety Precautions

- Always ensure ducts are uncapped before initiating air flow.
- Never look directly into the end of a duct during operation.
- Depressurize before disconnecting any components.
- Use the fast line vent to safely release pressure before handling ducts.
- Wear appropriate personal protective equipment (PPE), including safety glasses.
- **Do NOT exceed 10 BAR pressure when using compressor.**
- Only trained and authorized personnel should operate the tester.

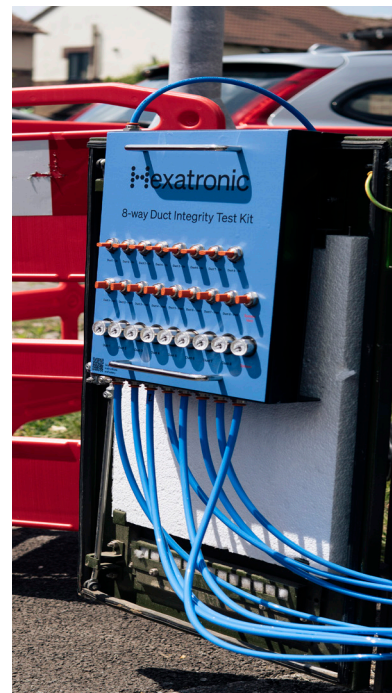
## 2. Equipment overview

The 8-Way Micro duct Integrity Tester enables quick testing of 7 mm or 8 mm installed ducts to confirm readiness for fiber installation. Featuring eight individual, easy-to-read line pressure gauges, it allows for rapid sequential multi-duct testing via its eight outlet ports. When used with calibration darts and 1Shots, it provides contractual proof testing, ensuring duct viability before blowing fibers and preventing costly fiber damage. Safety features include fast line venting for safe disconnection and an internal safety vent to prevent overpressurization, making it both efficient and reliable for high-volume testing.

**Note: When the switches are turned in the direction of the arrow, they are in the ON position.**

### 3. Preparation before testing

- Ensure all 'On' switches are set to the off position.
- Set all 'Vent' switches to the on position.
- Hang the unit securely allowing enough space underneath it to connect the ducts.
- Connect the inbound hose from the compressor via the Hexatronic Regulator Caddy.
- Connect the duct to be tested, ensuring catchers are fitted to far end.



Unit secured on a cabinet door

## 4. Operating instructions

### 4.1 Initial air flow check

- Switch on the 'On' switch by turning it in the direction of the arrow displayed. Air should flow through the duct.

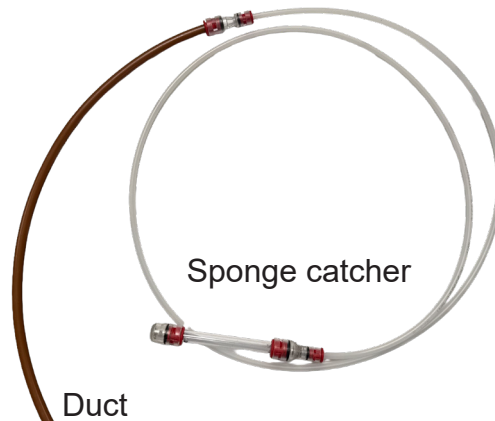
**Warning: Do not look into the end of the duct!**



- Switch off the 'On' switch.
- Switch on the 'Vent' valve to expel the air.
- Return the 'Vent' switch to its original position before applying more air.

## 4.2 Sponge cleaning process

- Attach the sponge catcher to the far end of the duct.



- Disconnect the duct from the tester and insert a sponge into the duct.



- Switch on the 'On' switch and wait for the sponge to appear in the catcher.
  - Repeat until the sponge is clean and dry.

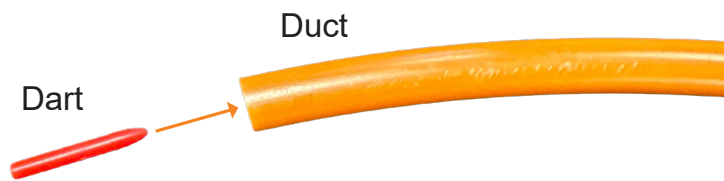
**NOTE: Do not reuse dirty sponges.**

### 4.3 OneShot and dart testing procedure

- Disconnect catchers and connect the OneShot to all applicable ducts.



- Disconnect ducts and insert one dart.



**NB:** make sure the dart is oriented correctly in the duct to flow better and block off one-shot correctly.

- Switch on the 'On' switch to allow the dart to travel down the duct.
- When the dart reaches the OneShot, the flow meter ball will read 0, indicating pressurization.

Pressurization indication on the Regulator Caddy



### 4.4 Pressurization and integrity check

- Switch off the 'On' switch and monitor the pressure gauge for 2 minutes.
  - No pressure loss should occur during this time.



## 5. Post-test actions

- Switch off the 'Vent' switch to fully expel the air from the duct.
- Repeat the test for all applicable ducts.
- Disconnect ducts - they are now integrity tested and ready for installation.
- Use the regulator Caddy to vent down the system.
- Once fully vented, remove the hose from the tester.



FOTT-DIM-001  
Manufacturer: Hexatronic UK Ltd  
Unit B, Quay West,  
Hardway, Gosport PO12 4LJ  
Hampshire, United Kingdom  
Registered in the UK: 06329180



Kieran Stone  
CEO, Hexatronic UK

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