



Hexatronic

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8-way Duct Integrity Test Kit

**Hexatronic Duct  
Integrity Testing  
User Manual**

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Prepared for field and workshop use, this manual provides step-by-step guidance, safety precautions, and technical details for the operation of the 1-Way Duct Integrity Tester.

## 1. Introduction

This section outlines the purpose, intended use, and safety precautions for the 1-Way Duct Integrity Tester.

### 1.1 Purpose of the manual

The purpose of this manual is to provide clear, step-by-step operating instructions, maintenance guidelines, and troubleshooting assistance for the 1-Way Duct Integrity Tester.

### 1.2 Intended use

This device is designed for verifying the integrity of ducts by performing pressurization and cleaning processes.

### 1.3 Safety precautions

- Always ensure the duct is uncapped before initiating air flow.
- Do not look directly into the duct during operation.
- Depressurize before disconnecting components.
- Wear appropriate PPE, including safety glasses and hearing protection.
- **Do NOT exceed 10 BAR pressure when using compressor. Exceeding this limit may cause damage or injury.**

## 2. Equipment overview

The 1-Way Micro duct Integrity Tester is designed for quick and efficient testing of 7 mm or 8 mm installed ducts, ensuring they are ready for fiber installation.

By proving duct viability before blowing fibers, it helps prevent costly fiber damage and provides contractual proof testing when used with calibration darts and 1Shots. This tester enables fast, single-duct testing - ideal for verifying individual customer connections - and features a single, easy-to-read pressure gauge. It comes with an 8 mm duct connection as standard, and can test 5 mm to 7 mm ducts using reducing connectors. Additional safety is built in through a fast line vent for safe disconnection and an internal safety vent to prevent overpressurization.

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

### 3. Preparation before testing

- Ensure the 'On' switch is set to the off position.
- Switch on the 'Vent' switch in the direction of the arrow .
- Connect the inbound hose from the compressor via the Hexatronic Regulator Caddy.



- Connect the duct to the tester and ensure the far end of the duct is uncapped.

## 4. Operating instructions

### 4.1 Initial air flow check

- Switch on the 'On' switch to by turning it in the direction of the arrow displayed to allow the air to flow through the duct.

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

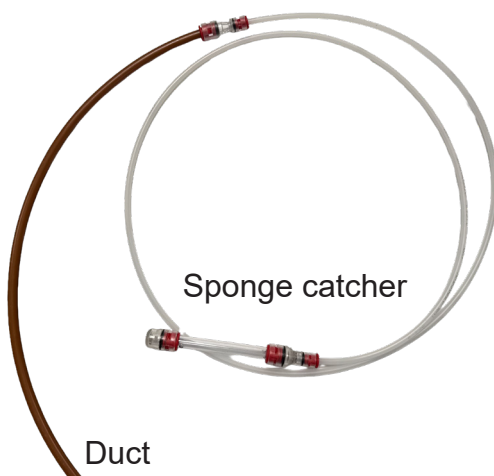


- Switch off the 'On' switch.
- Switch on the 'Vent' valve to expel the air in the system.
- **Ensure the 'Vent' switch is returned to its original position before applying more air.**

## 5. Test procedures

### 5.1 Cleaning the duct

- Attach the sponge catcher to the far end of the duct.
- Disconnect the duct from the Duct Integrity Tester and insert a sponge into the duct.



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

Note. Do not reuse dirty sponges!

## 5.2 Dart test

- Disconnect the sponge catcher and replace with a OneShot.
- Disconnect the duct 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 and wait for the dart to arrive in the OneShot catcher at the end of the duct and pressurise.



- When the dart has arrived, flow meter will drop to zero, switch off the 'On' switch and monitor pressure loss over 2 minutes.
- When the testing is complete, vent down using 'Vent' switch.

## 5.3 Pressurization

If you are testing without using the OneShot, disconnect the catcher and connect the end cap to the duct.



- Switch on the 'On' switch.
  - When the flow meter ball on the Regulator Caddy reads 0, the duct is pressurized.

- Switch off the 'On' switch and monitor the pressure gauge for 2 minutes.

- No Pressure loss should be observed during this period.



## 6. Post-test actions

- Switch off the 'Vent' switch to fully expel all air from the duct.
- Disconnect the duct. It is now integrity tested and ready for installation.
- Using your Regulator Caddy, vent down the system.
- Once fully ventilated, remove the hose from the tester.



### Regulator Caddy





FOTT-DIM-002  
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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