

Why DITEX Automotive Relay Analyzer Is Different

Not just a relay tester - a diagnostic analyzer designed to reveal the actual condition of the relay.

The DITEX Automotive Relay Analyzer is designed as a professional diagnostic instrument rather than a simple relay checker. Its additional capabilities provide greater diagnostic insight, improved workshop efficiency, and the ability to identify relay conditions that may be difficult to detect with conventional relay testers.

Many automotive relay testers are designed primarily to answer one question:

Does the relay work?

The DITEX Automotive Relay Analyzer goes further.

It analyzes the relay's coil and switching contacts, measures contact resistance, performs repeated testing and evaluates the results to help identify relays that may be deteriorating - even before they become a complete failure.

DITEX Automotive Relay Analyzer vs. Low-Cost Relay Testers

Key Feature	DITEX Automotive Relay Analyzer	Typical Low-Cost Relay Testers
Relay Health Analysis	Detailed analysis of coil and contact condition, rather than simply confirming whether the relay operates	Mainly designed for a quick relay check
Contact Condition	Measures contact resistance in mΩ and classifies the result as Good / Borderline / Poor / Failed	Often relies on a basic pass/fail indication or a less detailed resistance evaluation
Early Contact Deterioration	Helps identify elevated contact resistance before it develops into a complete failure	Partial contact deterioration may be less clearly identified
Automatic Relay Identification	Automatically identifies the supported relay pin configuration	Often limited to predefined relay types or configurations
Flexible Connection	Five individual test leads - connection order does not matter	Often relies on fixed sockets or specific connection arrangements
Non-Standard Relays	Designed to test supported standard and non-standard relay configurations	Compatibility may be limited by socket design, pin layout, or relay type
Coil + Contact Analysis	Analyzes both the relay coil and switching contacts	Often focuses primarily on coil operation and basic contact switching
Automated Multi-Cycle Analysis	10-cycle automated test with diagnostic analysis throughout the test	Some models offer cyclic testing, but the depth of analysis varies
Protection & Voltage Intelligence	Automatic 12 / 24 V identification, voltage checking, reverse-polarity and overvoltage protection	Protection and voltage handling vary considerably between models
Pre-Test Input Safety Check	Checks all test inputs for unwanted external voltage before automatic identification and testing begins.	Often not provided
Test Lead Compensation	Software zeroing compensates for the resistance of the test leads	Typically not provided

The Difference That Matters

A relay can still click, energize and appear to work - while its contacts are already deteriorating.

This is where a simple relay tester may tell you that the relay operates, while a diagnostic analyzer can provide much more useful information about its actual condition.

The DITEX Automotive Relay Analyzer measures contact resistance and evaluates the result against defined diagnostic ranges:

- **< 80 mΩ** - *Good*
- **80 - 100 mΩ** - *Borderline*
- **100 - 120 mΩ** - *Poor*
- **> 120 mΩ** - *Failed*

This gives the technician information that can help identify a relay that is becoming unreliable before it develops into an obvious failure.

Designed for Real Workshop Use

The DITEX Automotive Relay Analyzer is not dependent on a single relay socket or a predefined pin arrangement.

Five individual test leads can be connected directly to the relay, and **the order of connection does not matter**. The analyzer identifies the supported relay configuration automatically.

This makes the system particularly useful when working with:

- Different relay designs
- Non-standard pin arrangements
- OEM-specific relays
- Relays that do not fit a conventional tester socket

More Than a "Relay Works / Relay Doesn't Work" Test

The purpose of the DITEX Automotive Relay Analyzer is not simply to make the relay click.

It is designed to answer a more useful question:

How healthy is this relay?

By combining automatic identification, coil analysis, contact-resistance measurement and repeated cycling, DITEX provides a more detailed picture of relay condition.

That can help the technician make a more informed decision:

Keep the relay - monitor it - or replace it.

Why Pay More for DITEX?

The difference is not simply the number of functions on the specification sheet.

The difference is **the level of diagnostic information you get from the test**.

For a professional workshop, a relay that is technically "working" today but has deteriorating contacts can become an intermittent electrical fault tomorrow.

The DITEX Automotive Relay Analyzer is designed to help find that condition **before the relay becomes an obvious failure**.

Don't just test whether the relay works.

Find out what condition it is really in.