

# LOOP RESISTANCE TESTERS

*A comparison guide for LRT, ExLRT and BLRT*





# Introduction

If you're an MRO working on Boeing aircraft, then it's likely that you have an LRT in your facility. You might use this regularly and are comfortable with its well-known flaws, or you may have heard colleagues talk about them whenever the topic of loop resistance testing comes up.

Either way, time and time again, this equipment is causing the same frustrations for countless businesses like yours across the globe.

Until recently, the only alternative loop tester authorised by Boeing was the 'yellow box' LRT made by BAE systems. The LRT is a heavy tool which uses ageing technology. It requires off-site calibration and causes testing downtime when the batteries need charging.

## Suitable for Boeing and Airbus aircraft

We've developed our range of tools specifically to resolve the inherent issues with the legacy equipment, and have worked closely with The Boeing Company to achieve their approval.

We have two models approved for use by Boeing, which are simpler to use, and more operator-friendly. These are the ExLRT and the BLRT.

Our tools can also be used on Airbus aircraft with proven equivalency - we can provide guidance and advice on this.



## Model Identification



**LRT**

906-10246-3  
906-10247-3  
906-10276-3



**ExLRT**

XLR-9703-01



**BLRT**



	<b>LRT (THE YELLOW ONE)</b>	<b>ExLRT (THE RED ONE)</b>	<b>BLRT (THE ORANGE ONE)</b>
<b>CLASSIFICATION</b>	Division 2 (explosive atmosphere is unlikely to occur)	Division 1 (explosive atmosphere continuously present)	
<b>OPERATORS REQUIRED</b>	2	1	1
<b>RESULTS DISPLAY</b>	2 line LED digit display, 8 character alphanumeric display only	Large backlit LCD screen, LED indicators on probes and couplers	Integrated computer, touch screen, large characters
<b>TEST MODES</b>	Manual	Manual and automatic modes	Manual and automatic modes (test sequence is fully programmable)
<b>PROGRAMMABLE</b>	No	No	Yes
<b>PASS / FAIL MODES</b>	Manual	Automatic pass / fail status indication and report	Automatic pass / fail status indication and report
<b>USER INSTRUCTION</b>	No	Text instructions guide the operator through the test when in automatic mode	Full graphical instructions guide operator through the test in automatic mode
<b>RESULTS HANDLING</b>	No	Automatically save results to ExLRT & network servers	Automatically save results to BLRT & network servers
<b>REMOTE CONTROL</b>	No	Yes	Operate from any paired remote device
<b>CALIBRATION</b>	Return to base - typical turnaround is 2 months	Simple and software guided - can be carried out by user in typically 30 minutes	Simple and software guided - can be carried out by user in typically 30 minutes
<b>WEIGHT</b>	17kg / 37.5lbs	3kg / 6.6lbs	7kg / 15.5lbs
<b>DIMENSIONS</b>	355 x 355 x 558mm 14 x 14 x 22 inches	150 x 200 x 300mm 6 x 8 x 11.8 inches	345 x 295 x 150mm 13.5 x 11.6 x 5.9 inches
<b>LOOP TEST</b>	Yes	Yes	Yes
<b>JOINT TEST</b>	Yes	Yes	Yes
<b>BOND TEST</b>	No	No	Yes
<b>APPROVAL</b>	Boeing	Boeing, Airbus (via equivalency)	Boeing, Airbus



## *About us*

We've been designing and manufacturing automatic electrical test equipment for 30 years. In that time, we've provided systems to customers around the world, in the following industries:

- Aerospace
- Defence
- Rail
- Industrial, Power & Control
- Subsea
- Automotive

Our range of products enable rapid, automatic testing of engines, wiring harnesses, slip rings and other vital components.

We can work with you wherever testing is undertaken, at any stage of the product lifecycle. This may be at component manufacture stage - providing quality assurance to subcontractors - or at the final assembly stage, ensuring complete confidence in the final product.

Beyond this, we also provide testing solutions for MRO and servicing.

## *Talk to us*

Our UK head office is supported by satellite locations in the US and Hong Kong. With our large global network of reps and distributors, you can be assured of local support, sales and training.

For your local contact details, please visit our website, [www.mktest.com](http://www.mktest.com).

## *Follow us*

