

Fire & Overheat Detection System Test Rig

CAPABILITY SHEET - LOOP, SPOT-DETECTOR AND AMPLIFIER TEST STATIONS - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Test rigs for aircraft fire and overheat detection - continuous-loop sensing elements, spot detectors, control amplifiers and their indication chains.
OUR ROLE	Heat stations with traceable calibration, survey fixtures, loop metrology, amplifier consoles with fault injection, harness panels, records, AMC.
STATUS	Quoted against a fleet-level air force requirement for fire-detection-system test jigs; no delivered fire-detection test rig is claimed.

THE GOVERNING IDEA

NEVER LIE, EITHER WAY	A false alarm grounds the aircraft; a missed fire loses it - so thresholds AND quiet margins carry numbers, and both are proven.
HEAT IS THE HONEST STIMULUS	Electrical simulation exercises the amplifier, not the sensor - the element answers only to real degrees at a stated ramp.
ANY POINT, BOTH DIRECTIONS	Loop must alarm anywhere along its length - surveyed at stations along the run, with reset and hysteresis proven.

THE MACHINE

HEAT STATIONS	Tube and split furnaces and baths - stated length, stated temperature, stated ramp, traceable thermocouples, response time on a real clock.
LOOP METROLOGY	Resistance and capacitance vs temperature curves, insulation resistance, continuity - the fingerprints of moisture, ageing and chafing.
AMPLIFIER + INDICATION	Signature simulation, open/short/chafe fault injection, dual-loop voting, built-in test - and the lamp proven to answer.

DISTINCT & HONEST

THE FIRE FRANCHISE	The resistance rig proves structures endure fire; the hangar facility proves a building's systems at full scale; this rig proves the aircraft's own warning.
FIXTURES TRANSFER	Installed routing lengths, clamps and connectors replicated - bench numbers that mean something on an airframe.
ENGAGEMENT	Send the system types, element schedule and test cards to sales@neometrixgroup.com for a compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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