PRX-300

AUTOMATED DC PROXIMITY PROBE TESTER

Every 10 mil segment. Every time. With the report to prove it.

Stop turning a micrometer.

Let the PRX-300 run the curve.

Checking a proximity probe by hand means setting a micrometer, reading a meter and working out the numbers at every step – slow, and only as consistent as the person doing it. The PRX-300 clamps the probe, homes a motorised 4140 target, finds the probe and steps through the full linear range on its own. It judges every 10 mil segment against API 670 limits and hands you a PASS / FAIL and a PDF report.

AUTOMATIC

Home, seek, sweep and report with one button. Any probe from 5 to 19 mm, set anywhere in the clamp.

REPEATABLE

Segment ISF repeats to ±0.75 % even after the probe is removed and re-seated.

ON RECORD

A PDF test report and raw data for every probe, exported to USB from the AT-2040.

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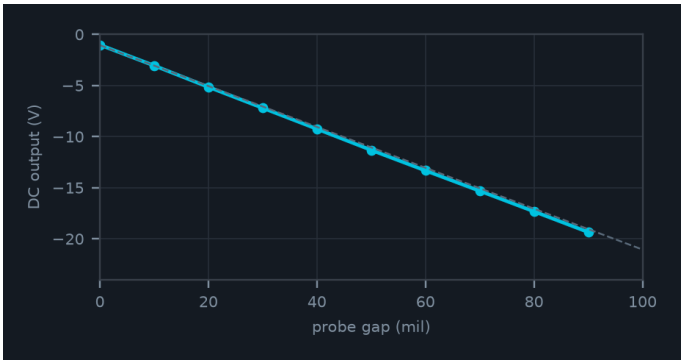
Works with the AT-2040 test system

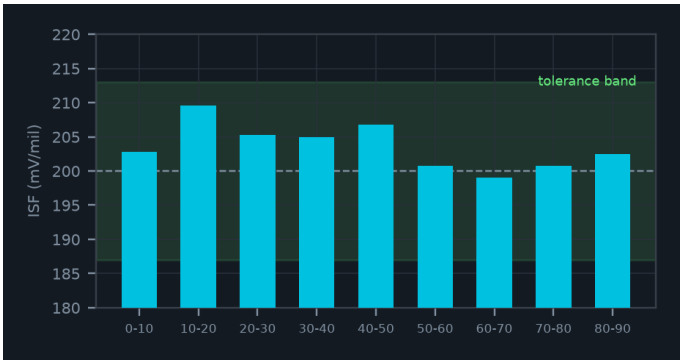
HOW IT WORKS

1	**Set up**	Clamp the probe in the V-block, pick the 1-5 m or 9 m limits and enter the serial numbers.
2	**Home and seek**	The target homes, finds the probe and settles on the -1 V start point.
3	**Sweep**	Ten points, 10 mil apart, each read once the target has settled.
4	**Judge**	Every segment ISF, the average ISF and the DSL against the limits – the failing segment is named.
5	**Check and report**	The target returns home and checks for screw slip, then a PDF report is saved.

Real results from the PRX-300



Output vs gap: an 8 mm system, 0-90 mil



Segment ISF with the 9 m tolerance band

KEY SPECIFICATIONS

Range	0-90 mil in 10 mil steps
Probes	Adjustable clamp for probe bodies 5 mm to 19 mm (3/16 to 3/4 in) diameter
Judged	Every 10 mil segment ISF, average ISF (10-90 mil) and DSL; 1-5 m and 9 m presets
Repeatability	Segment ISF ±0.75 % (95 %) with the probe re-seated; average ISF ±0.17 %
Protection	Home before every test, protected travel, screw slip check after every test
Targets	AISI 4140 supplied; 4340, 1018 / 1045, 410, 416, 17-4 PH, 304 / 316 and Inconel 718 available
Records	PDF test report + CSV per probe, USB export; calibration certificate supplied
In the case	PRX-300, 12 V supply, 4140 steel target, Pelican 1400 with custom foam

WHERE IT'S USED

Commissioning

Prove the probe, extension cable and driver work as a set before the machine is handed over.

Incoming inspection

Check new or repaired transducer systems against their published ISF and DSL.

Recertification

Re-run the same test on the same limits and file the PDF report with the asset record.

API 670 is a standard of the American Petroleum Institute. Repeatability measured by Agate on one 8 mm system; specifications subject to change.