INSPECTION RANGE

**TUBE SIZE**  7mm - 100mm (0.27” - 5.9”) diameter

**LENGTH**  Up to 25m (82’), if inspected from one end
              Up to 50m (164’), if inspected from both ends

DETECTABLE DEFECTS

For 8mm - 63.5mm (½” - 2 ½”) tubes

- **HOLES**  Minimum diameter 1mm (0.039”)
- **BLOKAGES**  Minimum of 5% of cross section
- **EROSION**  Minimum of 10% of wall thickness
- **& PITTING**

For 63.5mm - 100mm (2 ½” - 4”) tubes

- **HOLES**  Minimum diameter 3mm (0.118”)
- **BLOKAGES**  Minimum of 10% of cross section
- **EROSION**  Minimum 20% of wall thickness
- **& PITTING**

TUBE CONFIGURATION

Any configuration including:
U-bends, finned tubes, twisted tubes, multiple bends and spiral wound tubes.

TUBE MATERIAL

Any material including:
Metals (ferrous and non-ferrous) & non-metals (graphite, composites)

INSPECTION SPEED

10 seconds per tube
(depending on tube size, length and configuration)

ALGORITHM

Patented Acoustic Pulse Reflectometry (APR) technology
featuring specialized, proprietary algorithms for NDT inspection.
HARDWARE
Compact handheld device
Non-invasive probe assembly including a transducer, microphone, controls, LCD screen and adaptors to fit tubes of any internal diameter up to 150mm (5.9”). Customized extensions (optional) for easy access to tube openings in challenging situations such as air cooler headers, hand holes for super heaters, economizers.

SOFTWARE
Data Acquisition Software
External notebook/laptop computer connected to handheld device. Sophisticated APRIS software installed in computer shall be utilized for inspection setup, probe status monitoring, test data recording.

PORTAL
Exclusive for interactive analysis using sophisticated algorithms based on artificial intelligence & deep learning which assist to generate quality and intuitive report based on user needs.
Seamless interaction among service providers, asset owners and manufacturers to enhances the user experience to track the inspection activities, reports and other support pertaining to inspection.

REPORTING
Customizable, graphical online reports.
(Output: PDF or HTML)

PHYSICAL CHARACTERISTICS
Compact, rugged and lightweight design.

TOTAL BOX WEIGHT 14.88 lbs (6.75Kg)

BOX DIMENSIONS 450 L x 320 W x 200 H (mm)
(17.7” x 12.6” x 7.8”)

POWER INPUT
Dual voltage system (110V/220V)

TEMPERATURE RANGE -10°C to +50°C (14°F to 122°F)

CERTIFICATIONS
CE Declaration of Conformity;
Safety Certificate IEC 61010;
EMC Test Certificate;
Company Quality System
certified to ISO 9001:2008

STANDARDS
ASTM E2906/E2906M-18
ASME BPVC.V-2019-Article 18