

# Natural Gamma Ray/High-Resolution Density Caliper/Single Point Resistance

**Comprobe Inc.**

**1210+1203+1204**

## **Measurement Parameters & Applications:**

This tool is primarily used in coal exploration. The high-resolution density detector is forced to the side of the borehole with a 1-Arm caliper, which is oriented opposite the detector. The Bulk Density of the formation and the borehole diameter can then be identified. The tool also measures Natural Gamma Rays and Single Point Resistance for lithological identification.

## **Operating Constraints:**

Maximum pressure ..... 5000 PSI  
Operation temperature range ..... 0 to 48.9 degrees C, 32 to 120 degrees F

## **Dimensions:**

Length..... 126 in., 320 cm  
Diameter ..... 1.25 in., 3.175 cm  
Weight ..... 18 lbs, 8.2 kg

## **Natural Gamma Ray Detector:**

Sensor (Detector) type..... Sodium Iodide (NaI), 0.5 X 2.5 in., 12.7 X 63.5 mm,  
(Diameter X Length)  
Gamma Ray range..... 0 – 5,000 API

## **Density Detectors:**

Source activity and radioisotope ..... 25 mCi <sup>241</sup>Am  
Density source to detector offsets..... 1.5 in., 3.81 cm  
Density range..... 1.2 – 2.7 g/cc, non-linear

## **Caliper Arm:**

Caliper range..... 1.25 – 16 in., 3.175 - 40.6 cm

## **Single Point Resistance Electrode:**

Single Point Resistance range..... 0 to 1000 ohms