

PNT X Signal Generator

Overview

This ecoprofile outlines lifecycle environmental impacts of the PNT X Signal Generator and provides insights into its physical and environmental properties, energy efficiency, greenhouse gas emissions during use, materials composition, restricted substances, and packaging.

It is designed to empower customers to minimize environmental impacts, optimize product efficiency, and adopt sustainable end-of-life solutions that prioritize recycling and reduce landfill waste.

EcoProfile

Table 1. Physical and Environmental Properties

Approximate Dimensions (HxWxD) (mm)	177 x 482 x 665.8 mm; 6.97 x 18.98 x 26.21" (19" 4U Chassis)
Typical Mass (kg)	30 kg (66 lb) (configuration dependent)
Operating Environment (°C)	+10 to +40°C (50 to 104°F) (40–90% RH, non-condensing)
Storage Environment (°C)	–40 to +60°C (–90 to 140°F) (20–90% RH, non-condensing)
Electrical Power (W)	100–240; V9A Max; 50 to 60 Hz

Table 2. Power Efficiency (Input Mode)

We have provided power consumption data within a typical use case scenario¹ to support customers who wish to optimize product energy management and report on greenhouse gas emissions from their purchased goods and services.

Mode	Power Demand ²	Clarification
Off	0 W	mains power off
Standby	20 W	mains power on, unit off
Idle	436 W	unit on, no output
Operating	507 W	unit on, scenario running
Power per Channel Bank		
Idle	26.3 W	unit on, no output
Operating	30.8 W	unit on, scenario running

Table 3. Materials Used

We took an eco-design approach in our material selection of the chassis and prioritized recyclability, mass and work output, and energy efficiency. The table below shows the estimated proportions of the materials within the product.

Material	Percentage by Mass
Aluminum Parts	35.7%
Circuit Boards and Components	26.0%
Steel Parts	20.3%
Brass Parts	5.5%
Cables	5.3%
Cooling	4.2%
Plastic Parts	2.9%

¹ Typical use case scenario is configuration 1 x C50 X display and 1 x PNT X simulator (v10); four channel banks and 224 channels activated; mains & front panel power/standby button switched on.

² All values apply to four channel banks fitted.

PNT X Materials Used

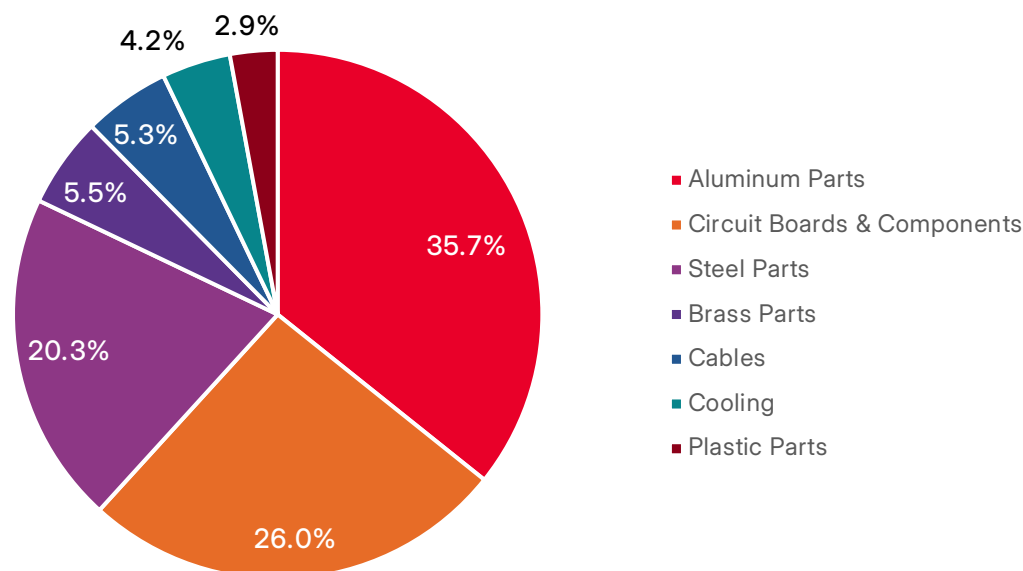


Figure 1. Pie chart displaying PNT X materials used

Table 4. Restricted Substances

This product fully complies with all relevant global regulations including, but not limited to: the European Union’s Restriction of Hazardous Substances Directive (RoHS) Directive 2002/95/EC as amended by the RoHS Directive 2015/863; Management Methods on the Prevention and Control of Pollution caused by Electronic Information Products commonly known as “China RoHS”; European Union’s Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation 2006/1907/EC; European Union Battery Directive 2006/66/EC; the Waste Electrical and Electronic Equipment Directive (WEEE Directive) is a European Community Directive, numbered 2012/19/EU.

Table 5. Packaging

Packaging is made up of paper, composites, and plastics and is 99.5% recyclable by weight. Paper-based packaging contains an estimated 70% recycled content and is FSC certified. Packaging weight is minimized. Our packaging does not contain hazardous or restricted substances and is fully compliant with the European Union Packaging and Packaging Waste Directive 1994/62/EC, as amended, and CEN packaging standards EN 13427:2005 as well as US Toxics in Packaging legislation.

Disclaimer

The data and information provided in this document is based on measurements taken in Keysight laboratories and does not constitute a complete Environmental Product Declaration or Product Life Cycle Assessment.

The PNT X is calibrated to ISO/IEC 17025 standard at the time of delivery.

Sustainability at Keysight

Keysight is a global leader with deep expertise and decades of experience in testing, assurance, analytics, and security, serving developers, service providers, and enterprise networks.

We are committed to reducing the environmental lifecycle impacts of our products through the following initiatives:

- Designing products with sustainability and end-of-life considerations in mind
- Minimizing product size, weight, noise, and energy consumption to enhance efficiency and reduce resource use, where possible
- Incorporating advanced automation to improve performance and sustainability
- Facilitating in-field servicing and upgrades to extend product lifespan and reduce waste
- Integrating sustainability metrics into product development processes to drive continuous improvement

For more specific information on how sustainability applies to our products and services, please contact your Keysight representative.



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