

Product Carbon Footprint for Smart Sensor Unit (mnooswuir)

23.82

Company: TechInnovate Solutions (rhsedzsrkq)

Standard: GHG Protocol | **System Boundary:** Cradle-to-Grave

Production Country: China | **Generated Date:** May 24, 2026

kgCO₂e per unit

TOTAL CARBON FOOTPRINT

23.82 kgCO₂e

CARBON INTENSITY

23.82 kgCO₂e/unit

TOP MATERIAL HOTSPOT

Detailed Emission Breakdown

Lifecycle Stage Breakdown

Use Phase	20.00 kgCO2e (83.9%)
Raw Material Acquisition & Processing	2.05 kgCO2e (8.6%)
Manufacturing (Energy)	1.35 kgCO2e (5.7%)
Transport (Upstream & Downstream)	0.60 kgCO2e (2.5%)
End-of-Life (Net Credit)	-0.18 kgCO2e

(EoL activities provide a net carbon credit, reducing overall footprint.)

Material Carbon Impact (Relative to Total Raw Material Emissions)

Lithium-ion Battery	0.75 kgCO2e (36.6%)
Plastic Casing	0.60 kgCO2e (29.3%)
PCB	0.50 kgCO2e (24.4%)
Packaging (Cardboard)	0.15 kgCO2e (7.3%)
Copper Wire	0.05 kgCO2e (2.4%)

