

# Design for sustainability (DfS) scorecard



With our DfS scorecard, we drive sustainability improvement during the product development process through multiple product sustainability criteria divided into seven impact areas.

## MAS-100 Atmos® Microbial Compressed Gas Sampler



Redesigned compressed gas monitoring solution focusing on ease of use and data integrity optimization

### Impact areas

### Results



#### MATERIALS

29% product mass reduction and 35% raw materials carbon footprint reduction due to the replacement of Aluminum with High Impact Polystyrene (HIPS) for the housing and of the NiMh battery with a Li-ion battery



#### SUPPLIERS & MANUFACTURING

No change compared to baseline product in consideration of our DfS criteria



#### PACKAGING

60% packaging weight reduction due to the replacement of a rigid plastic case by a corrugated box



#### ENERGY & EMISSIONS

45% lighter system including packaging leading to lower emissions associated with transportation  
1.5W power increase due to more powerful hardware and touchscreen to improve the product functionalities and comply with the latest data safety regulations



#### WATER

No change compared to baseline product in consideration of our DfS criteria



#### USABILITY & INNOVATION

Improved ergonomics due to the reduced weight and simplified use thanks to the new touchscreen  
Added user and data management features to preserve customer data safety and integrity (21 CFR Part 11 compliant)



#### CIRCULAR ECONOMY

New generation hardware can accommodate future software updates and added functionalities  
Degradation of the recyclability of the product housing due to the replacement of Aluminum with HIPS

Baseline product: MAS-100 CG Ex® system