



## Patient Weighing System

**Challenge:** How do health care providers and assisted living caregivers easily check the weight of non-ambulatory patients who have difficulty balancing on typical scales?

**Answer:** Add a scale to the wheel chair.

Our customer approached us to develop an accurate weighing system that would be as simple to use as a bathroom scale but able to weigh patients who cannot stand on a scale. Other requirements required the unit to be portable, patient-safe, and able to be folded and stored.



Force Switch engineers, adapting their knowledge of mounting load cells onto high-purity portable tanks used in the mixing of pharmaceuticals, proposed to add force sensors to the connecting points of the seat, arms and foot rest assembly of the wheel chair that would weigh a person sitting comfortably in the chair.

The Force Switch design provided a system that is rechargeable, with an easy to read digital display and a one-button zeroing function to compensate for extra pads and blankets for a superbly accurate scale.

The final benefit of choosing Force Switch for this customer was our ability to deliver high-quality solutions in a short period of time. The customer needed working prototypes within six weeks to be exhibited at his major tradeshow. As a result of meeting this deadline, Force Switch helped the customer book several large orders at the show.

