

Sensing & Control + THINK

Evolving Core Technologies

Sensing & Control + THINK are core technologies that run through the heart of our organization. Taking the lead in each era, OMRON has developed unique core technologies that create value.

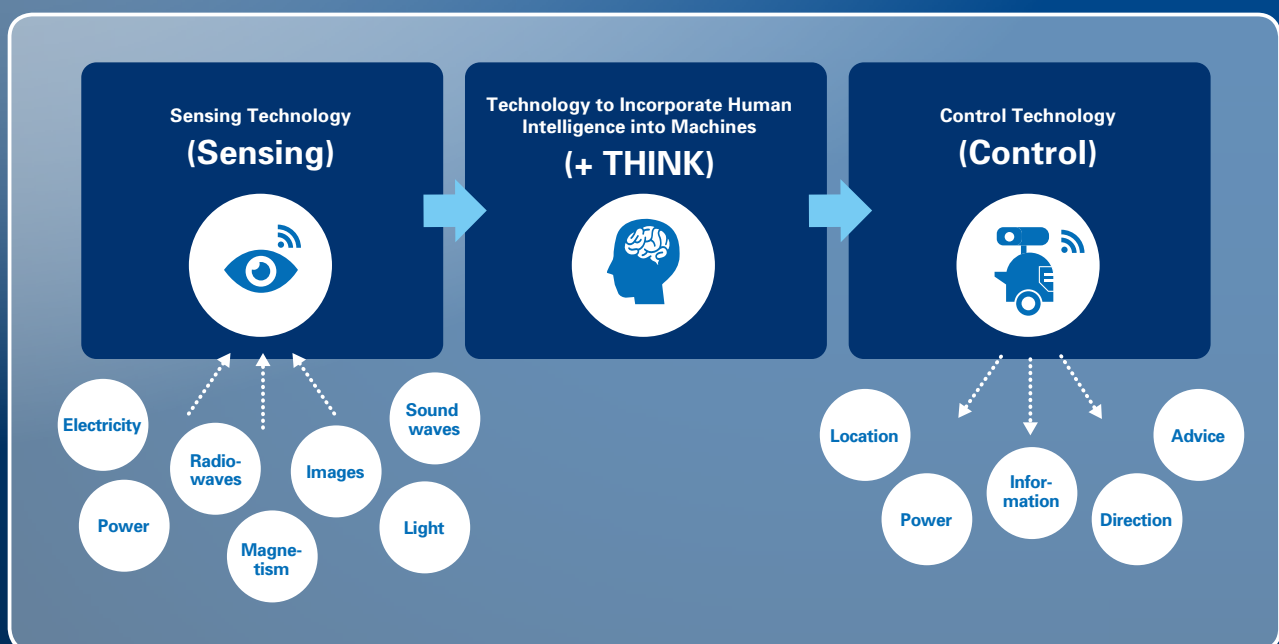
Sensing collects status and other information about people and manufacturing based on observation of the production floor.

Control provides appropriate solutions to the production floor based on the information obtained through Sensing.

In 2011, OMRON added a new category, **+ THINK**. This idea expresses the need for human intelligence in Sensing & Control. We believe that the more Artificial Intelligence (AI), the Internet of Things (IoT), and other technical innovations evolve, the more these technologies need to become truly intelligent to be valuable.

OMRON will continue to strengthen and evolve our core technologies to maximize the value of our contributions to society.

What Are *Sensing & Control + THINK*?



Embodiment of *Sensing & Control + THINK* Table Tennis Coaching Robot, *FORPHEUS*



The *FORPHEUS* System



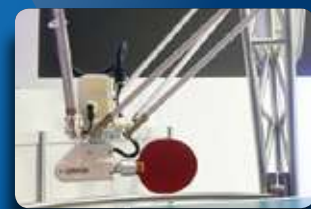
Sensing

Sees the speed and trajectory of the ball



+ THINK

Assesses the characteristics of the ball hit by the opponent
Predicts the speed and location from where the opponent can most easily return the ball



Control

Controls the position to return the ball

True interaction between human and machine