

## Wireless Acceleration Measurement System

### WAMS

#### Acceleration / Vibration / Frequency

CADwalk integrates synergetic concepts to create necessary functionality at minimized costs and cost of ownership.

With a small microcontroller, a MEMS-Sensor, a small lithium-polymer battery and a Bluetooth transceiver we build a most useful, time and cost saving wireless-acceleration-measurement system for robots, the automation- and automotive-industry.

#### Universal: WAMS



#### Key Features:

- **Package:** equipped with extreme strong shallow pot magnets.
- **Robustness:** ideal for crash tests and strong vibrations
- **Send Acceleration Data** to a PC or Laptop
- **Visualisation:** under Windows XP/Vista/7, scope like screen shows Fourier Analysis too, programmed in LabVIEW™, Data logging

#### Specifications: WAMS

- **Acceleration:**  $\pm 25$  g, 50 g, 100 g, 250 g
- **Resolution:** 0.1 %
- **Sampling Rate:** 5.000 s<sup>-1</sup>
- **Communication range:** 10 m
- **Battery life without recharging:** 6 h



Dimension (without magnets):

Size [mm]: 75.5 x 40 x 43.7  
Weight [g]: 249

Dimension (with magnets):

Size [mm]: 75.5 x 40 x 50.7  
Weight [g]: 326

#### Benefits:

- **No cable, no cable breaks in strong vibration environment!**
- **Save enormous time to install measurement equipment**
- **Increase yield, throughput and MTBF**