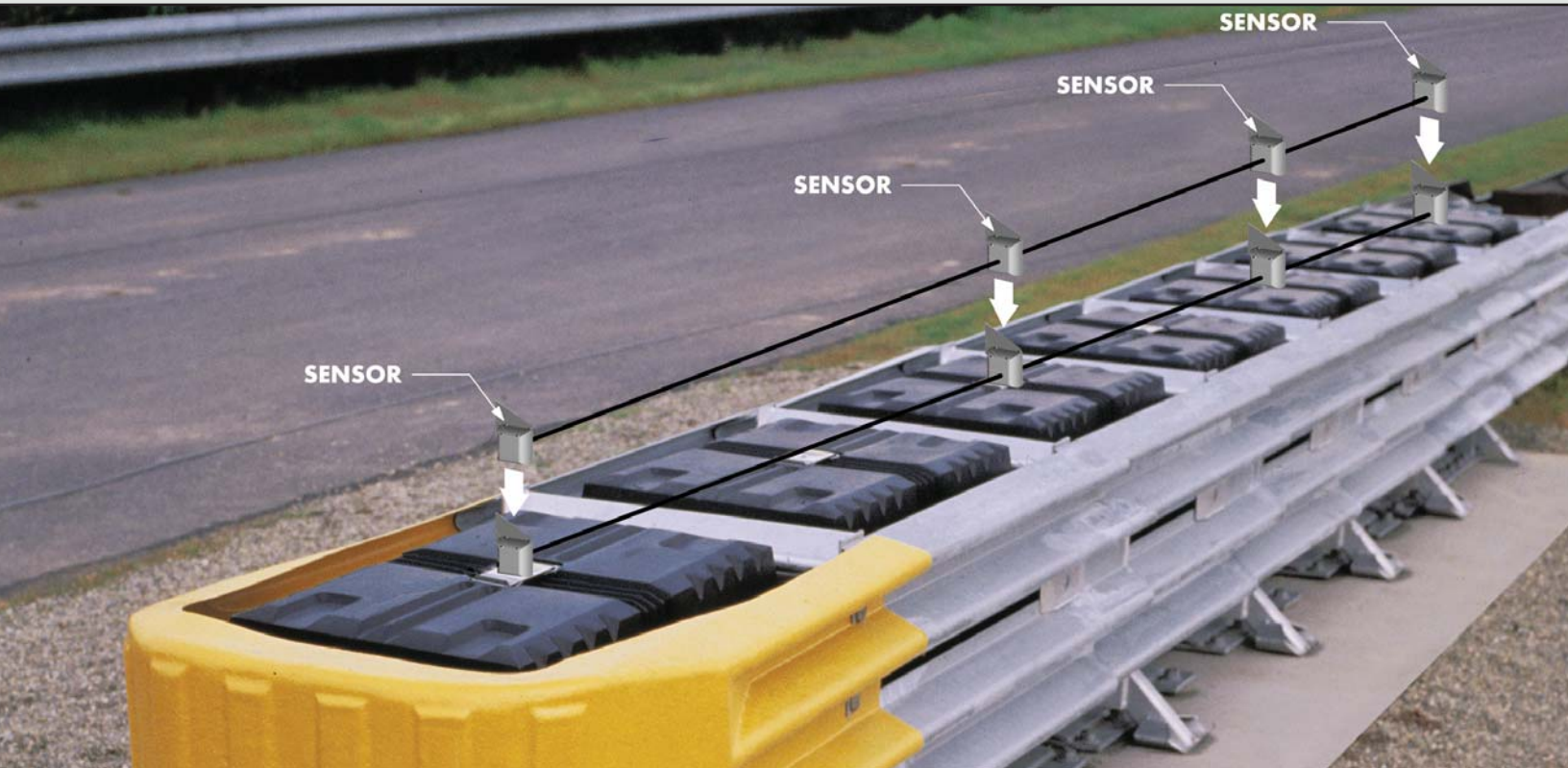


IMPACT MONITORING SYSTEM

NOTIFIES WHEN AND WHERE A CRASH CUSHION HAS BEEN IMPACTED



OVERVIEW

The Impact Monitoring System (IMS) from Energy Absorption Systems is a revolutionary new product that senses penetration or impact into an energy absorbing crash attenuator or barrier – and provides immediate notification via GSM wireless phone network – so authorities know when and where the intrusion occurs.

The system utilizes non-mercury sensing devices mounted to a crash cushion. Each sensor is tied to all the other sensors in a network into a control box where all power, logic and communication devices are housed. Once a sensing device measures movement above the pre-set limit, a signal is received by the control logic, power cells are activated and the system's internal circuitry activates a cellular communication device that immediately sends notification.

The device transmits the appropriate data to user defined mobile telephone numbers (up to 7), indicating the location and time the crash occurred.

FEATURES AND BENEFITS

- ▶ Reduces the need for routine visual inspection, which saves on time and labor costs.
- ▶ Real-time monitoring and notification allows authorities to react quickly to unsafe conditions caused by an impacted attenuator, and reduces liability and potential injury to motorists.
- ▶ Takes the guesswork out of impacted attenuator's exact location.
- ▶ Environmentally secure housings and enclosures are IP66 rated.
- ▶ Low cost state-of-the-art communication.
- ▶ Uses GSM technology to send text messages to up to seven different phone locations



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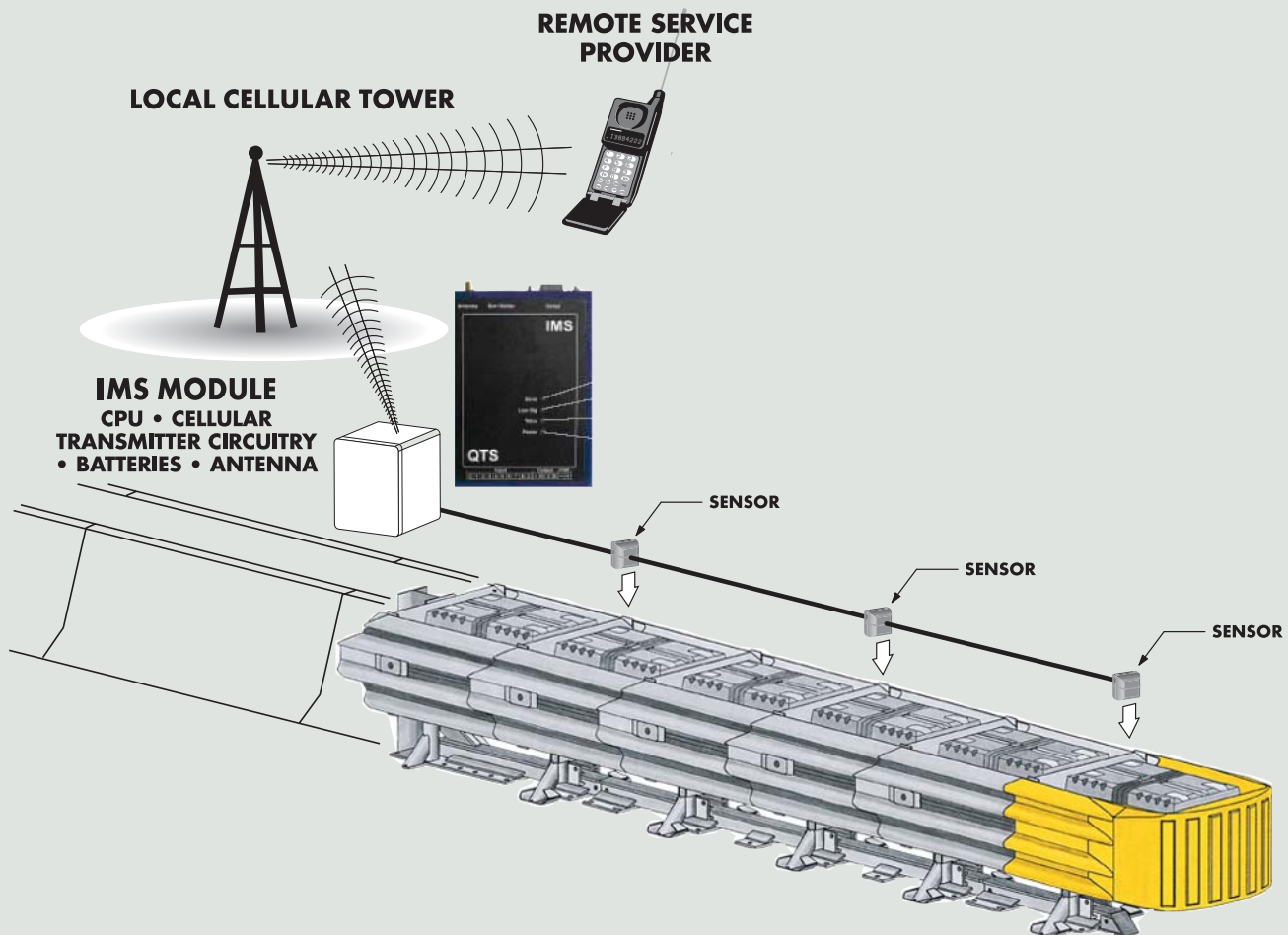
SAVING LIVES BY DESIGN

IMS IS ENGINEERED USING THESE COMPONENTS

- ▶ Non-mercury sensing devices
- ▶ Cables to form a sensing loop
- ▶ Logic control and communication electronics (multi-layered printed circuitry)
- ▶ Communications antenna
- ▶ Battery power source
- ▶ Environmentally secure housings and electronic enclosures

HOW IMS WORKS

1. A vehicle impacts the attenuating device.
2. Any one of the sensors sense movement.
3. A very low power signal is transmitted through the sensing loop to the control logic located in the control unit.
4. The low power signal activates the modem from its sleep state.
5. The GSM modem prepares the message to be transmitted.
6. SMS (Short Message System) text message is sent to the programmed mobile telephone numbers.
7. The message is repeated at 1~24 hour intervals (User's Defined) until the system is reset.



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General specifications for the Impact Monitoring System are subject to change without notice to reflect improvements and upgrades. Additional information is available in the Product Manual for this system. Contact Energy Absorption Systems for details.