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## ***EBI 90 Temperature Data Logger from ebro® Monitors Trucks worldwide via cellular radio systems or WLAN***

Monitoring transport temperatures with data loggers has been the state-of-the-art for quite some time - demanding customers, however, ask for more elegant technical solutions that efficiently combine temperature monitoring with truck fleet management. **The most modern, comfortable and safe method of continuously monitoring transport temperatures is the centralised telemonitoring via cellular radio systems or satellite**, e.g. by using the EBI 90 system from ebro® Electronic.

The EBI 90 truck logger is placed in the cockpit of the truck to be monitored. It fits exactly into a car-radio slot according to DIN ISO 7736. The power (12V to 24V) is supplied by the vehicle's electrical system. The EBI 90 contains a plug-in SIM-card, the GPS function is optional. The system measures the temperature in the cargo area with up to 16 sensors (4 digital inputs/door contact switches) in a freely adjustable measuring interval between 1 min and 24 h. The measured values are stored in a memory with a capacity of 250,000 measured values and archived.

In the measuring range from -30 to +70°C the accuracy is  $\pm 0.5^{\circ}\text{C}$ . A permanent door monitoring (open/closed) offers additional security. The values are routed to the receiver via radio signal, no matter if the receiver is located in the same building or thousands of kilometres away. Upon request, the radio signals are communicated to a control centre, where the measured data are continuously monitored. The user can have the measured data transmitted to a mobile phone, or load them on his PC, or check and control them via Internet.

The data are transmitted worldwide via mobile radio systems, wherever a reception on a mobile phone is possible. Where no mobile radio network is available, the data transmission is via satellite. In case of malfunction, the alarm message arrives via a control centre almost in real-time, so countermeasures can be taken immediately. The customer can choose to receive the alarm message on a mobile phone, via e-mail, via an acoustic or via a visual signal (e.g. an alarm siren). The exact position of the truck can always be determined via GPS. A radio transmission via mobile radio (GPRS, DataCall, SMS or satellite) enables a centralised control and monitoring almost in real time. Temperature and position data are transmitted to a central Internet control room and evaluated there. In case of malfunction, the control centre informs the responsible service provider.

**Legend:** Using the EBI 90 truck-logger, transport and storage temperatures can be centrally monitored via radio all over the world.

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