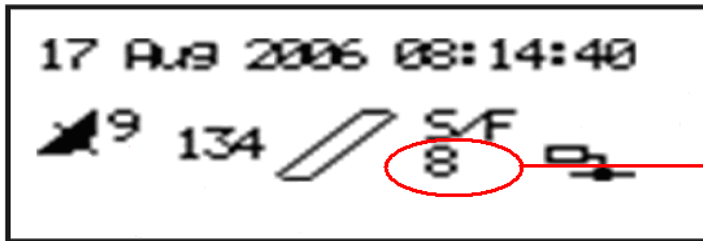


BACKGROUND NOISE INDICATION

An increased background noise is an indication of a higher interference level picked up by the system. Every 5 seconds an average background noise measurement is performed by the decoder and sent to the computer.

The background noise indication appears on the display of a TranX3 decoder :



TranX3 display information

The background noise indication also appears in the timing software :

-In Orbits the indication appears at the bottom right of the screen



Background noise indication

If the noise level is higher than 40, the received transponder signal-strength should be 60 above noise level to ensure perfect functioning of the system. Peaks in background noise level can be caused by any electrical switch in the area or, usually at night, by short-wave radio stations. Electronic equipment may also cause an increased background noise level. Switch-off the suspected equipment to find out. Ignitions of engines may also be a source of interference which only shows when the vehicle without a transponder passes.

The system is especially sensitive for interference with bad connections in the detection loop or coax cable. Typically when connections in the detection loop are not soldered and mounted with shrinkage sleeves or when BNC connectors are not properly fitted, interference is picked up more easily.