

## Speed of measuring vs Communication speed

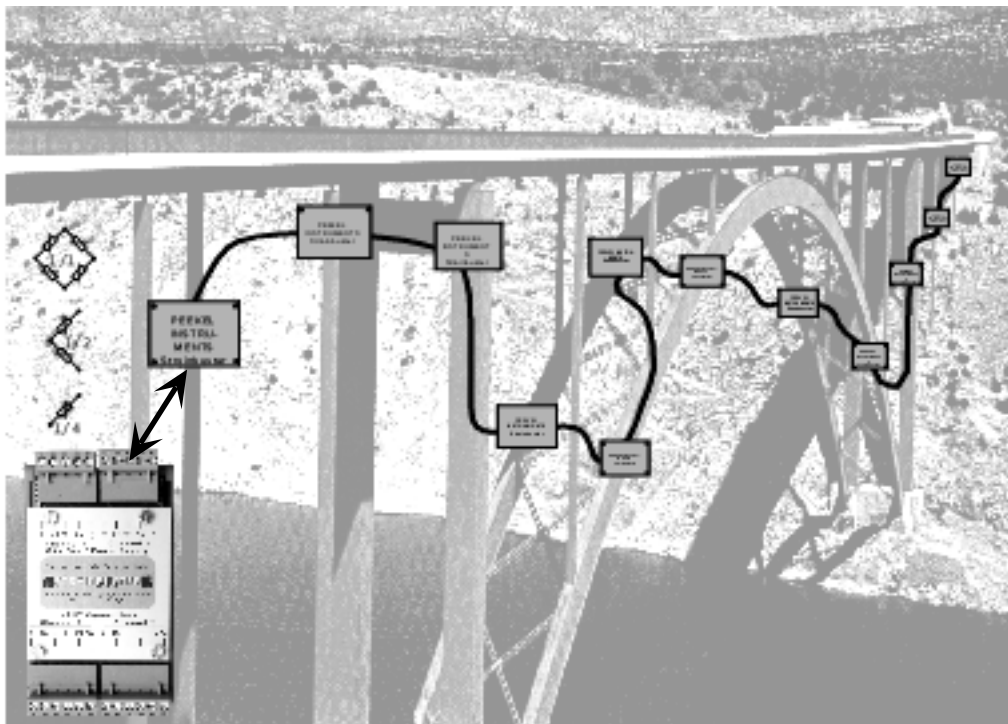
The maximum number of messages, the speed of measuring at the inputs and the length of the cables used are inter-related and they define the maximum number of inputs in a system. The table below gives their inter-dependency at a maximum busload of 80%. The remaining 20% is necessary for other frames of the protocol.

The number of strainbuster units on 1 CANbus network is limited to 60. This results in a maximum number of channels of 120.

Bus configuration		Max. no. of channels at a measuring speed of:			
Speed	Max. cable length	10 msec	50 msec	100 msec	1 sec
1 Mbit /s	30 m	91	120	120	120
800 Kbit/s	50 m	73	120	120	120
500 Kbit/s	100 m	45	120	120	120
250 Kbit/s	250 m	22	110	120	120
125 Kbit/s	500 m	11	55	110	120
500 Kbit/s	1000 m	4	22	54	120
250 Kbit/s	2500 m	1	9	18	120
125 Kbit/s	5000 m	0	4	9	90

### Application

The following picture shows an artist's impression of how a STRAINBUSTER system could be configured:



For further information and / or a demonstration, please contact:



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