Field of application and characteristics

The ***opto*SENT** system can be used for the optical transmission of one or two (optional) SENT-Signals (Single Edge Nibble Transfer) at the same time and is able to power a connected sensor with 5V. It consists of a battery supplied transmitter and receiver connected to each other with an optical fiber. With the optical transmission and the shielded case, the system is well equipped for EMI and EME tests.

Application

Technical data

Channels:	1 or 2 (optional)
Resolution:	12bit per channel; (min. 8bit eff.)
Frequency range:	DC … 1MHz; others available on request
Input:	approx. +/-6V; connector: SUB-D9 (male plug)
Input impedance:	approx. 300kΩ; approx. 8pF
Sensor supply:	5V internal, max. approx. 100mA
Output:	+/- 6V; 100mA; connector: SUB-D9 (female plug);
Output impedance:	50Ω
Sample rate:	20MS/s per channel
Power supply:	transmitter: 5 NiMH cells with 4Ah; 10-15h depending on sensor power consumption; receiver: 5 NiMH cells with 4Ah; 10-15h five-poled charge plugs, prepared for external supply
Case dimensions:	136mm x 86mm x 65mm chromated aluminum case; front and back anodized
Weight:	approx. 800g
Misc.:	optional external battery pack / supply available housing optional totally anodized with rubber protectors optional 6V sensor power supply

Optical fiber

Connector / Type:	FSMA / simplex multimode fiber 62,5/125µm