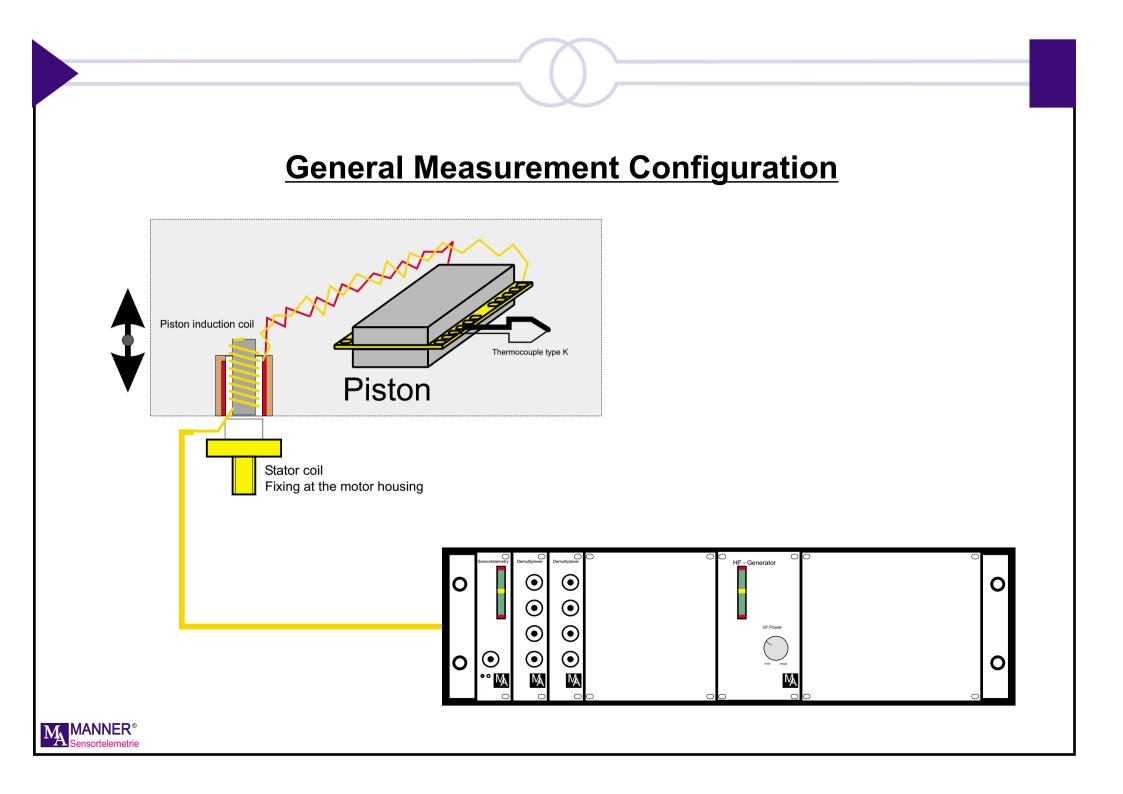
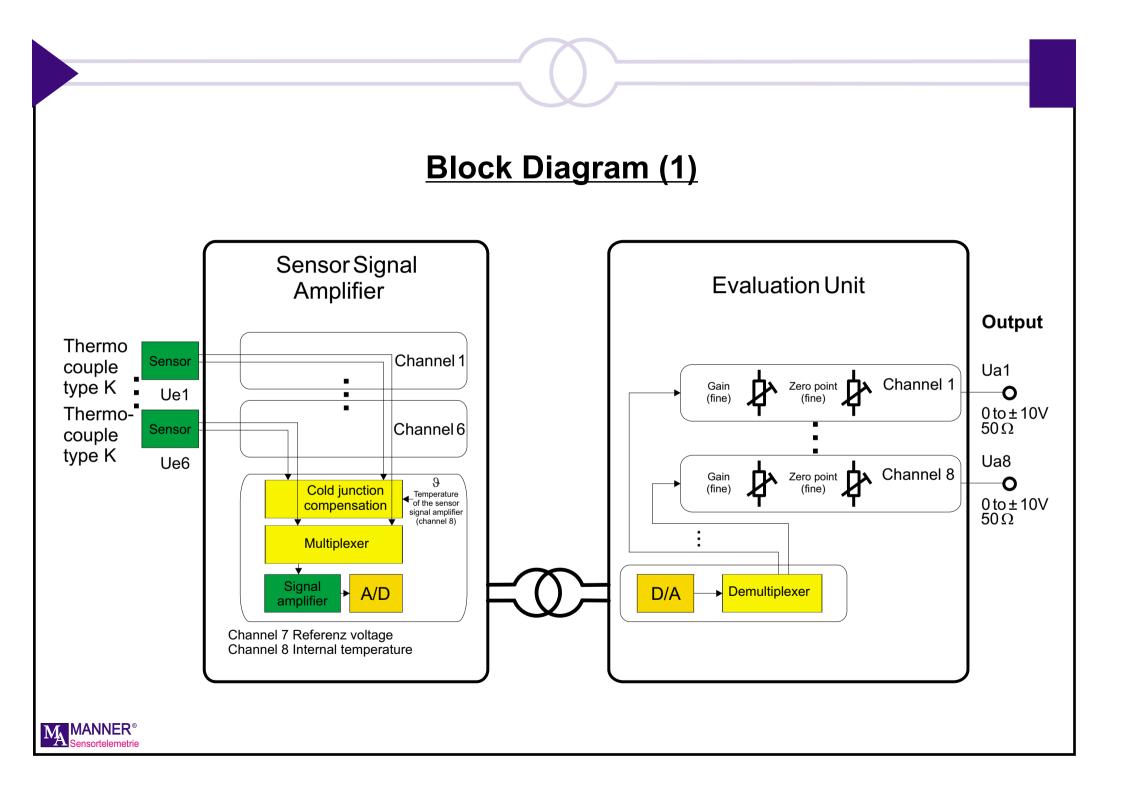
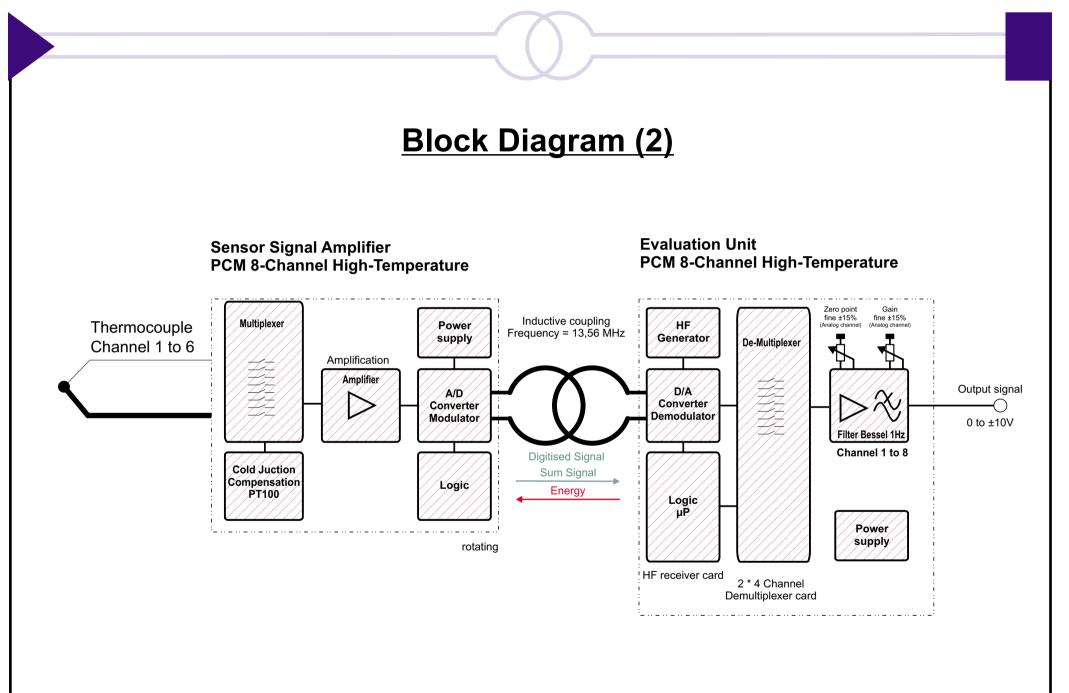


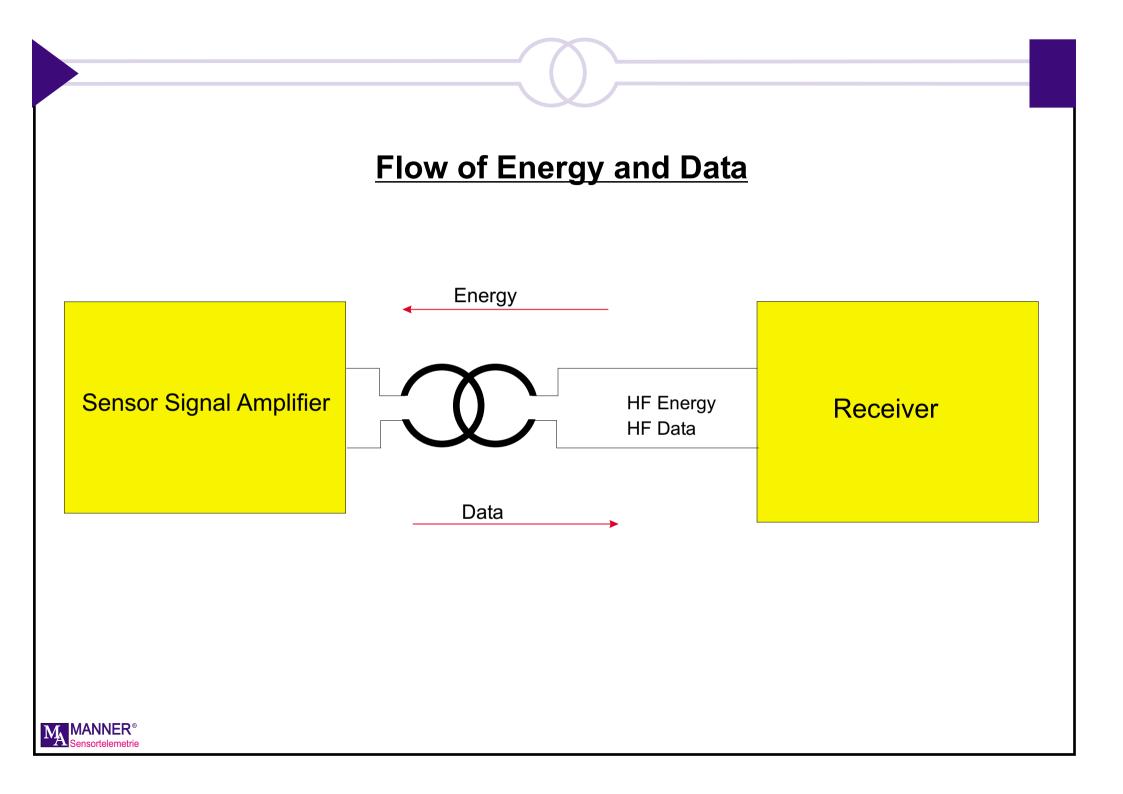
# Instruction Manual 8 Channel Spot Telemetry System

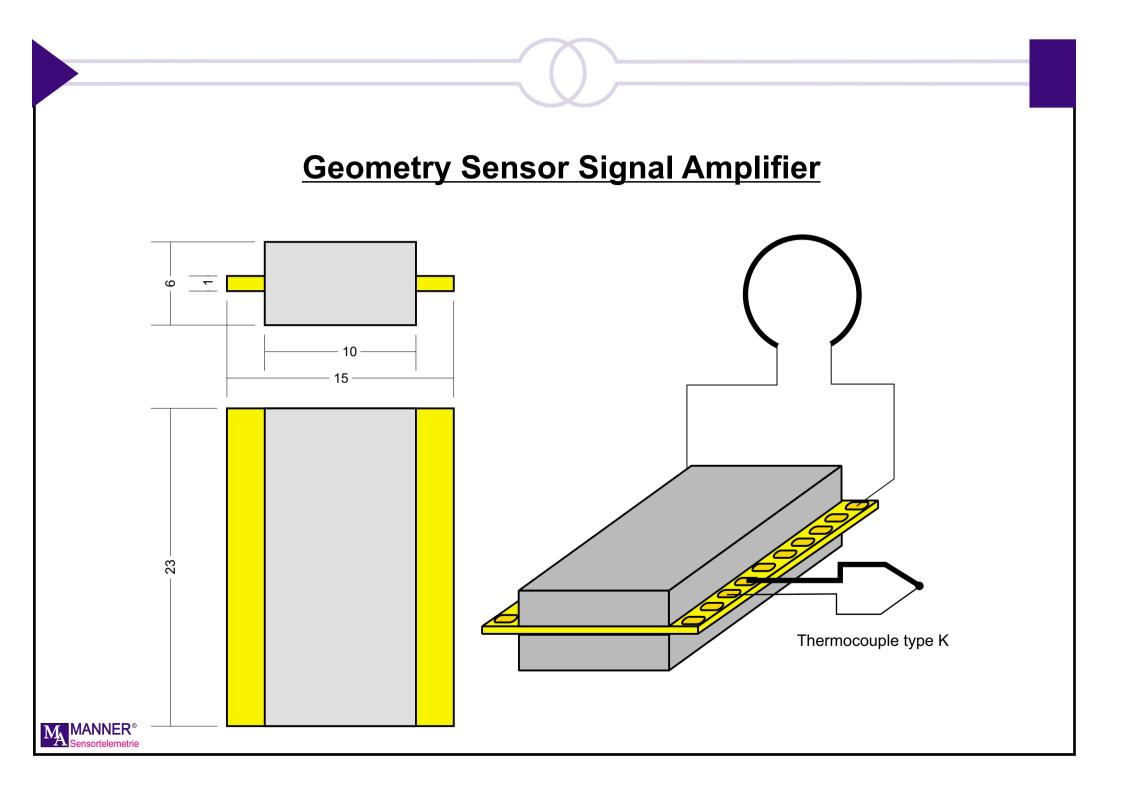


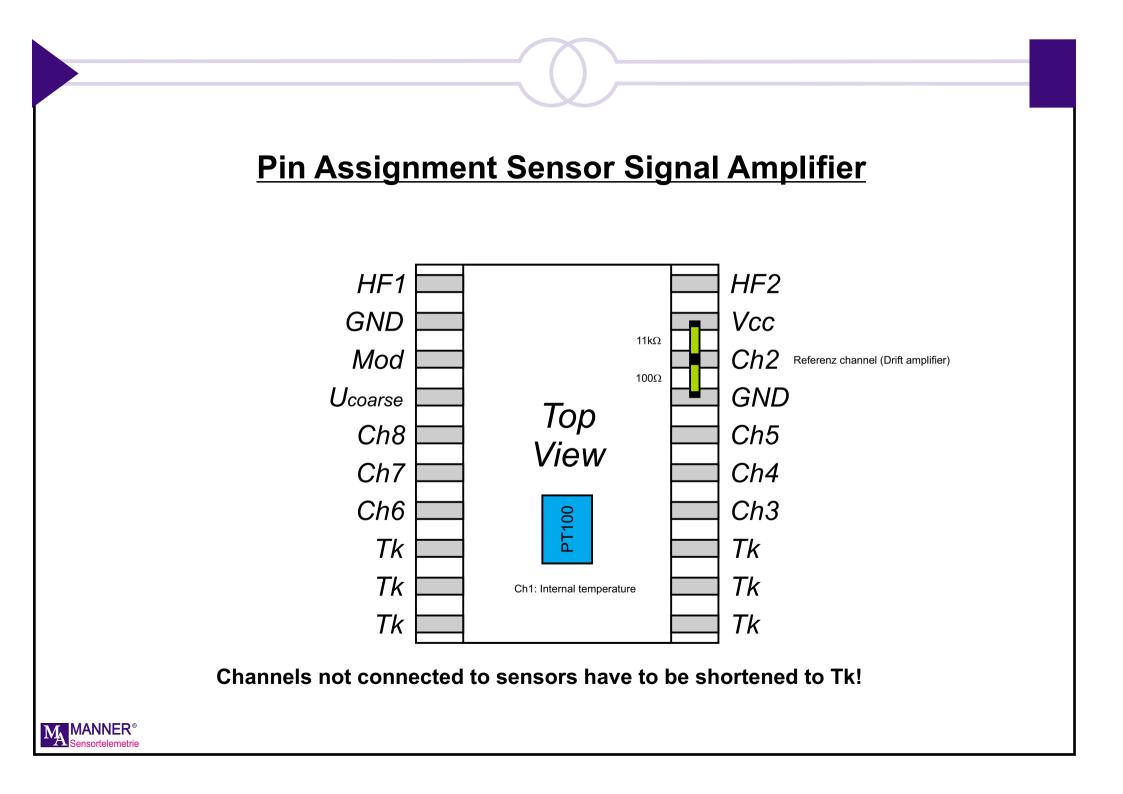


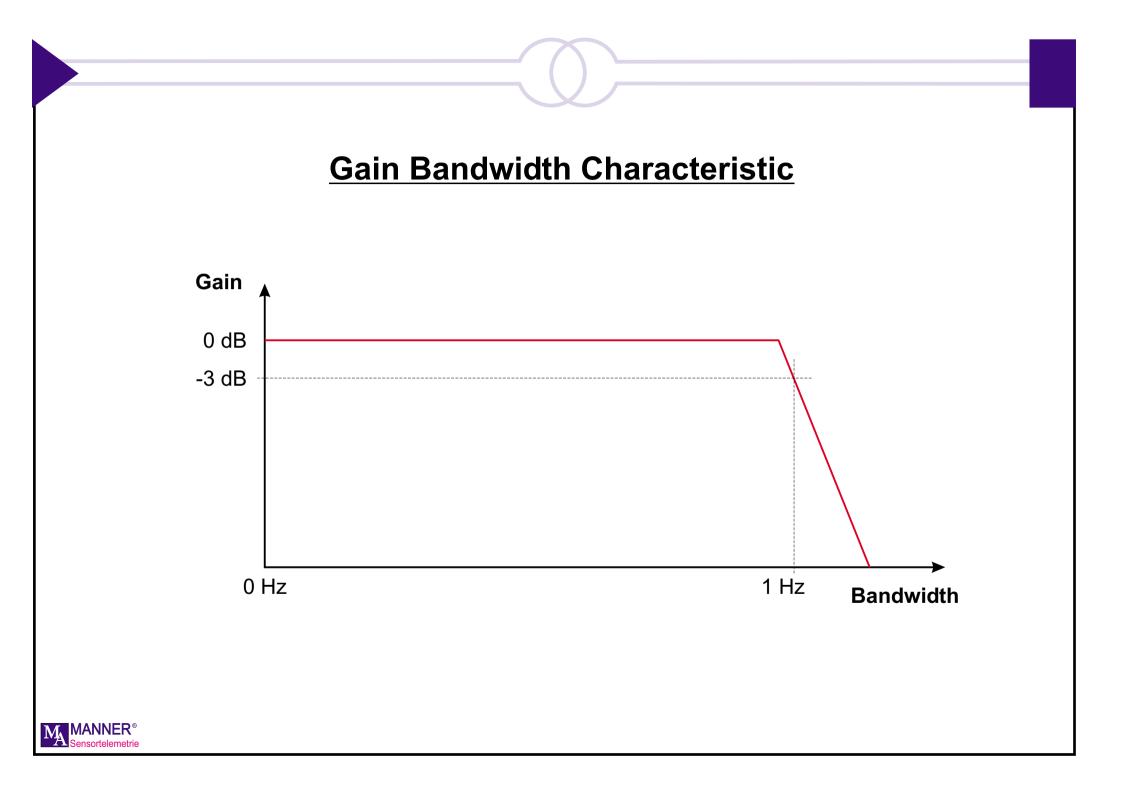


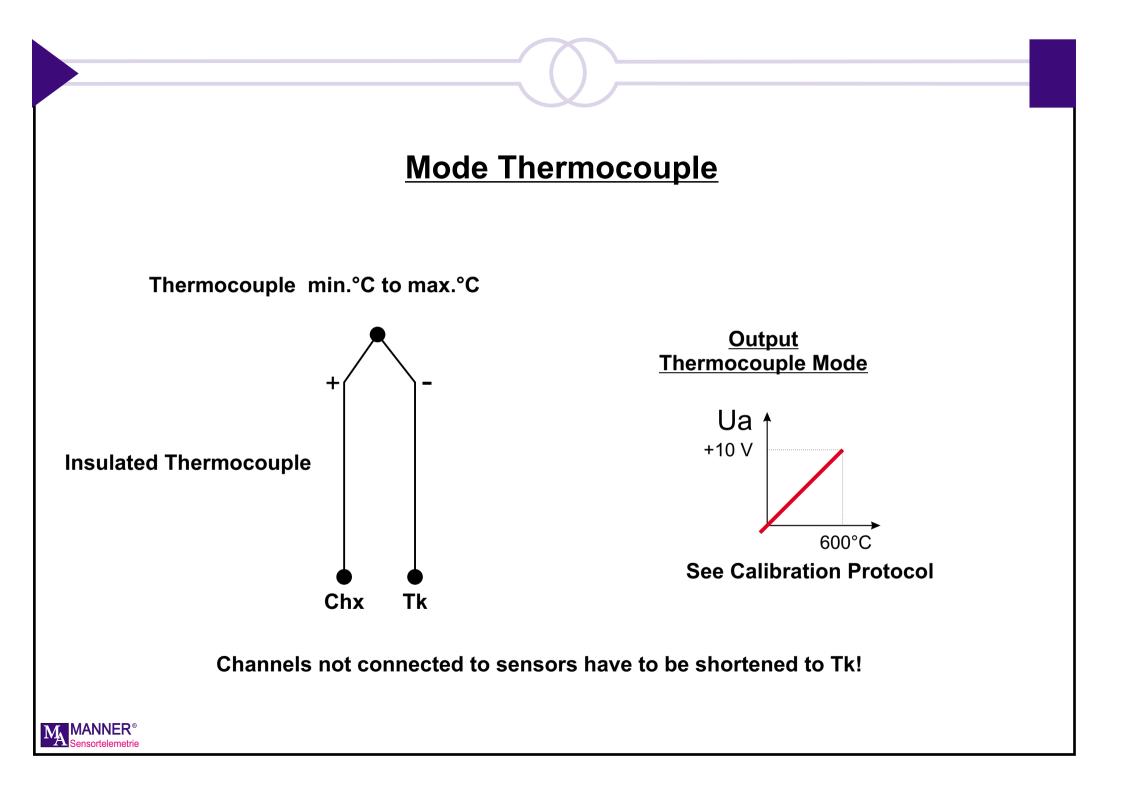


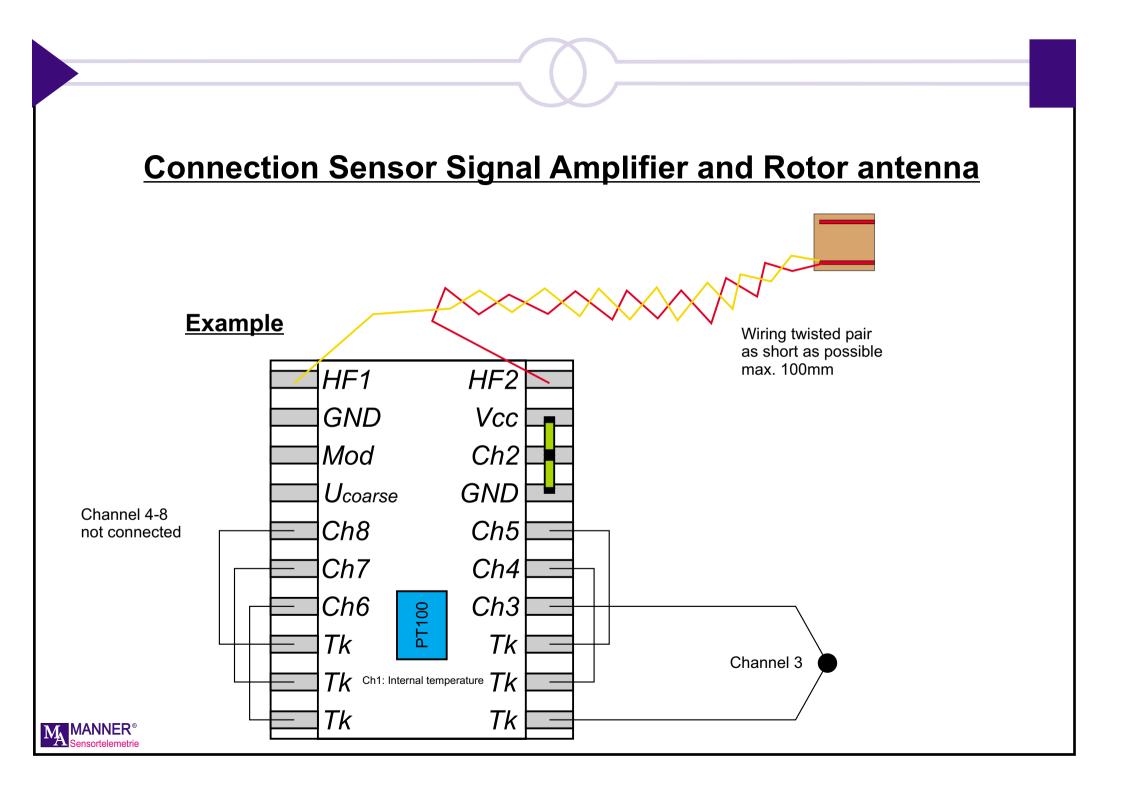


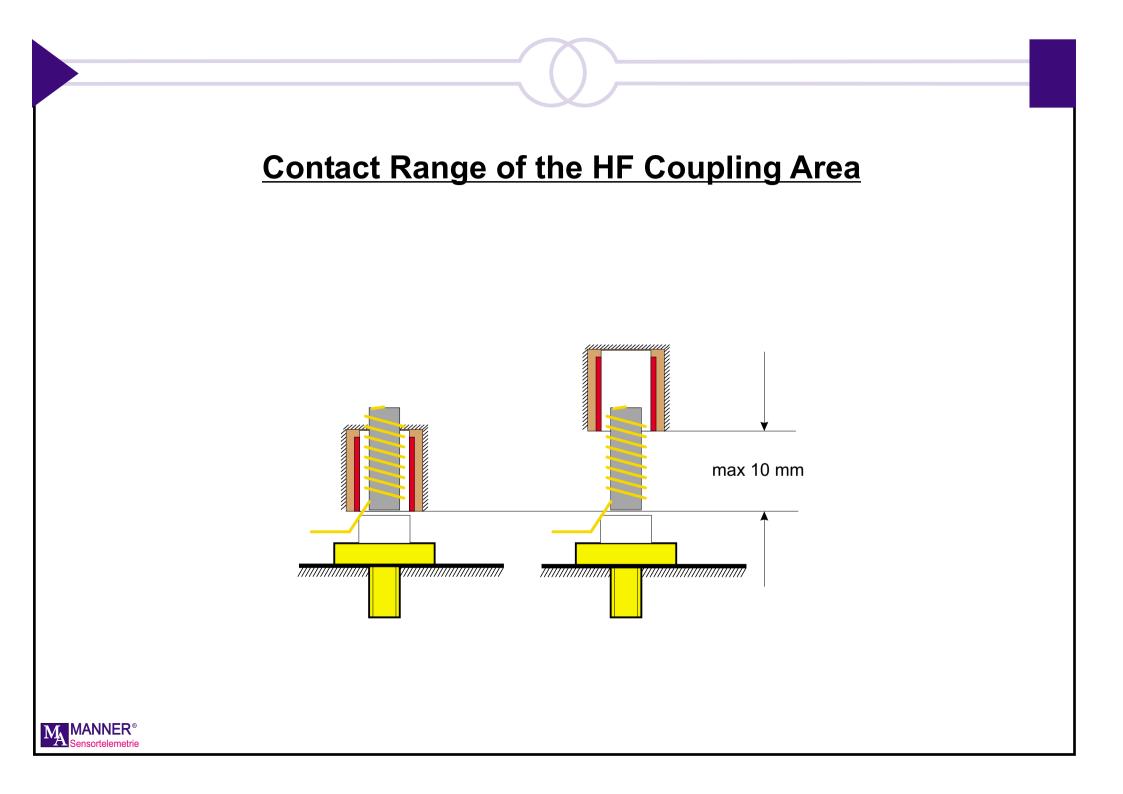




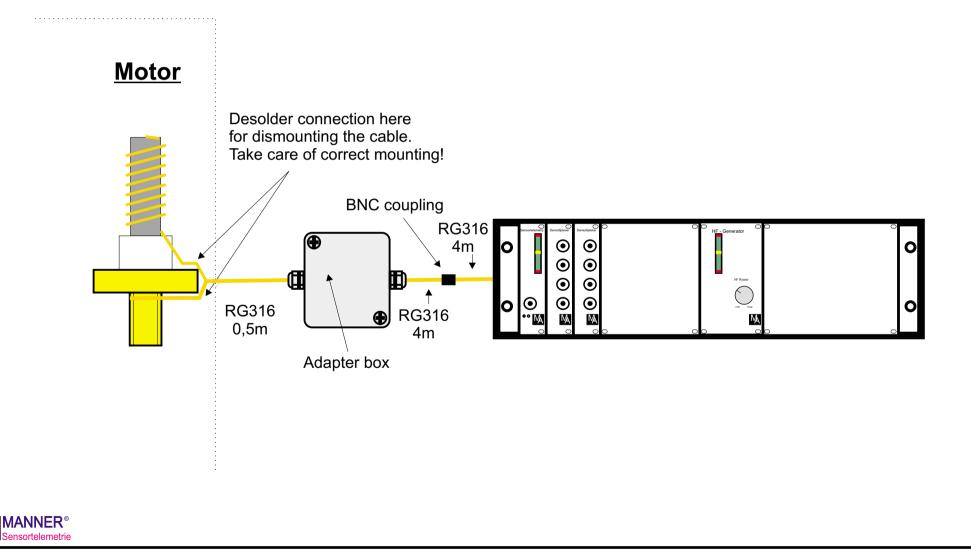


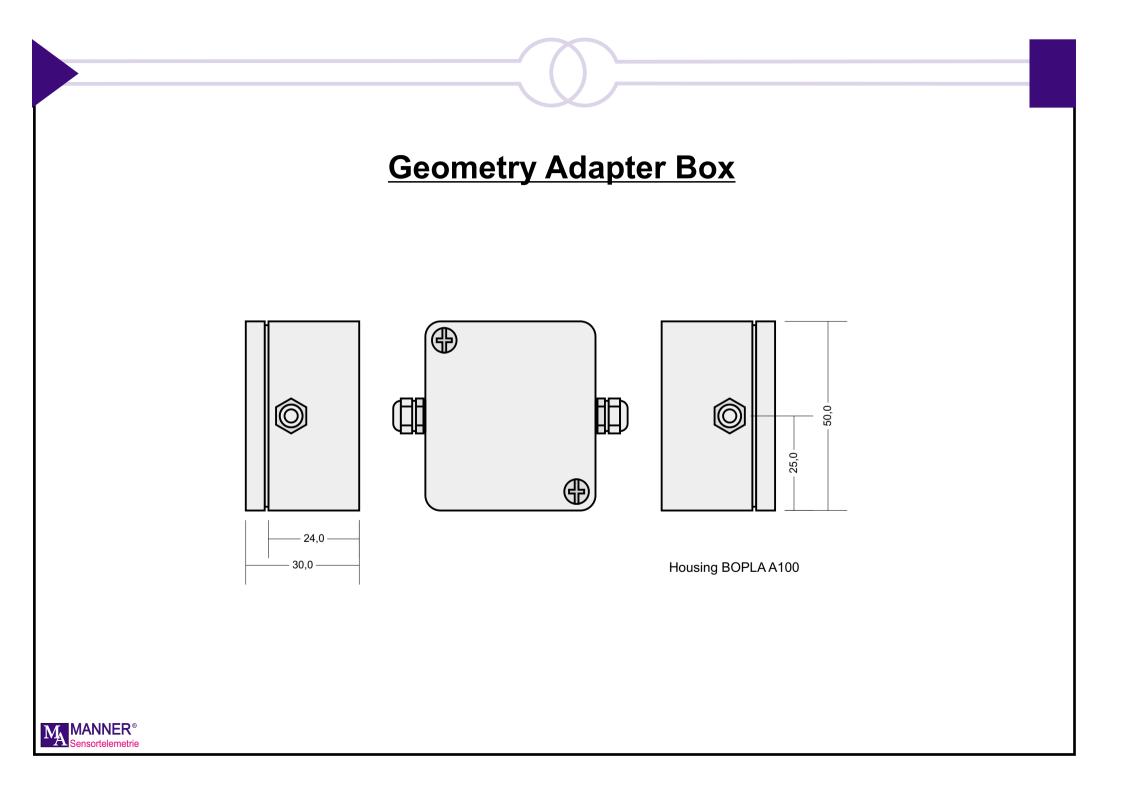


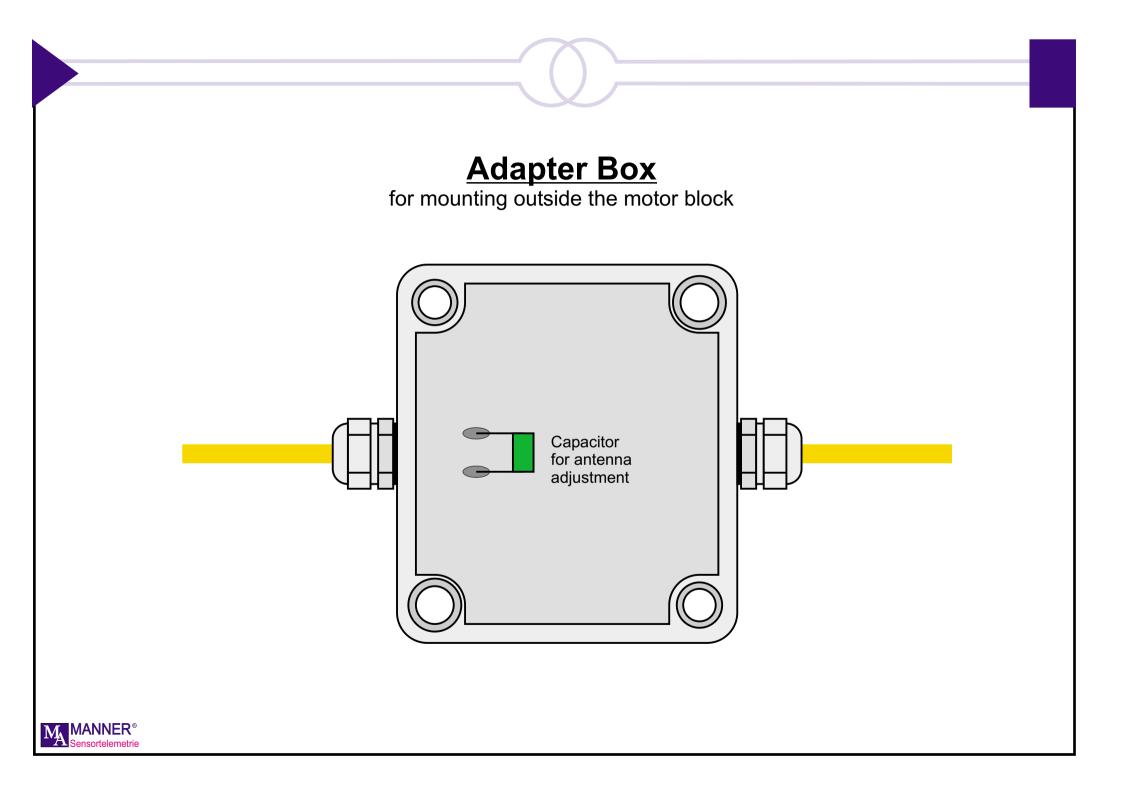


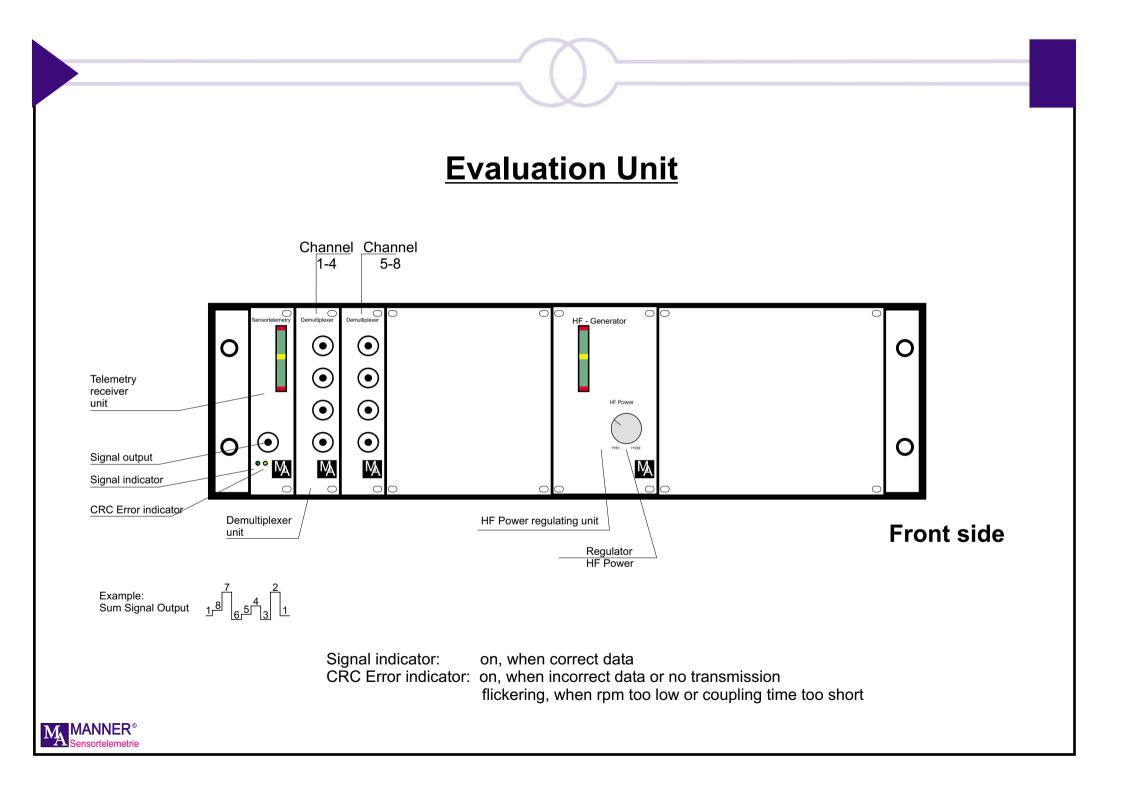


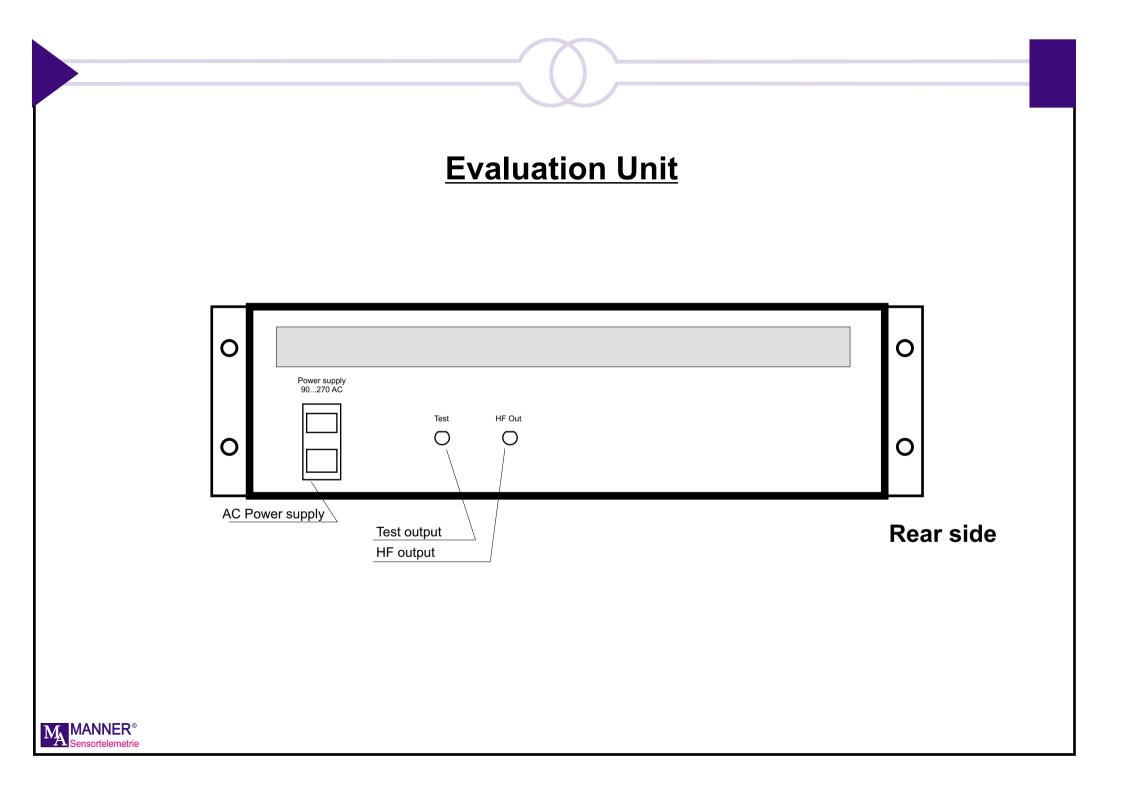










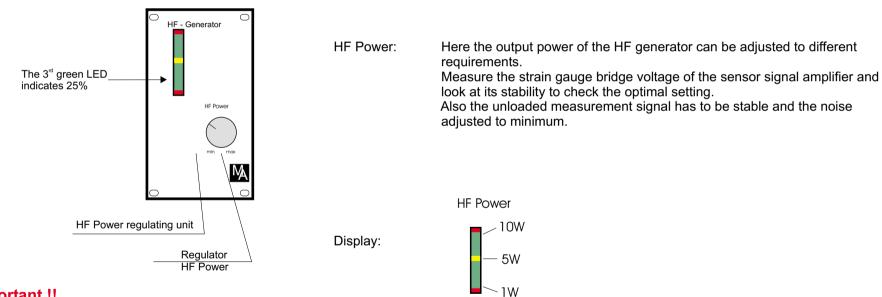


## **Assignment Measuring Point to Channel Number**

Channel Number	Measuring Point
8	1
7	2
3	3
4	4
5	5
6	6



#### **HF Generator**



Important !!

If the coupling is optimal the HF Power Display must show LESS than 25% !! Pmax of the Sensor Signal Amplifier: < 2Watt !!

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## **Preparation and Mounting**

- 1. Mount sensor signal amplifier
- 2. Mount rotor antenna
- 3. Mount stator antenna and check insertion depth
- 4. Connect stator antenna with evaluation unit
- 5. Connect sensors

#### Starting (static mode) and Adjustment

- 1. Set HF power to MINIMUM
- 2. Connect oscilloscope to the signal output of the receiver unit (see picture)
- 3. Place stator antenna correct to the rotor antenna
- 4. Switch on the system
- Increase HF power till the green signal display LED at the RECEIVER lights up - DO NOT EXCEED limit of 25% HF power! At this setting the signal has to look like the signal at the picture (contact area) at page 'Adjustment to check the Transmission'



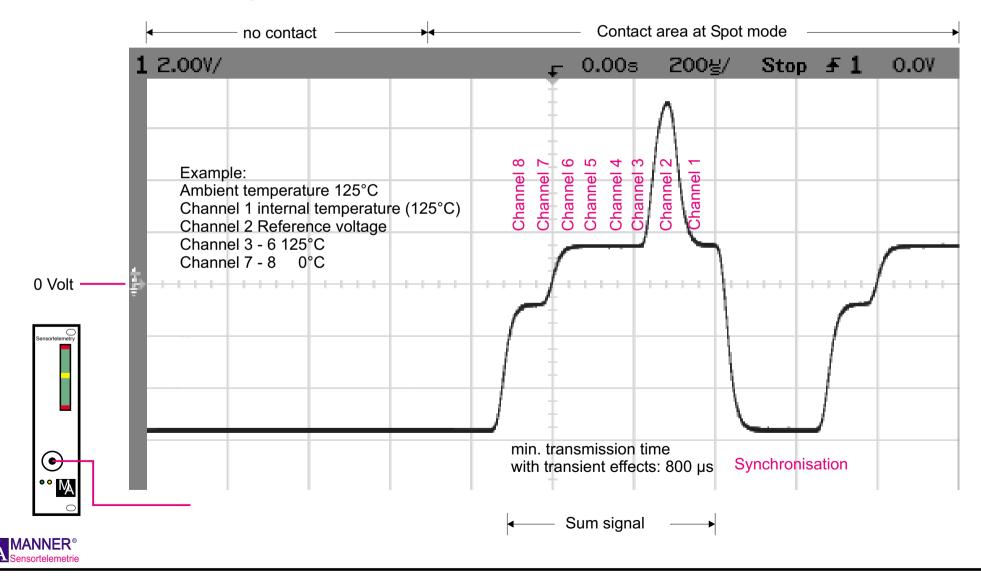
#### Starting (dynamic mode) and Adjustment

- 1. Start turnig the rotor
- Check the signal output of the receiver unit with the oscilloscope At this setting the signal has to look like the signal at the picture at page 'Adjustment to check the Transmission'

- if not than correct HF power - DO NOT EXCEED limit of 25% HF power!



#### **Adjustment to check the Transmission**



### **Technical Data**

System: Sensortelemetry HF frequency: 13,56 MHz HF power 1 to 10 W integrated power supply rotor Number of channels: 6 + 2 internal Sensor: Thermocouple insulated NiCr-Ni (type K) integrated cold junction compensation Sample rate: 1,25 kSamples / s Temperature measuring range: -30°C to 600°C Analog output voltage: -10 V to +10 V at 50  $\Omega$ Gain adjustment D/A converter (fine  $\pm 15\%$ ) at the evaluation unit Zero point adjustment D/A converter (±15%) at the evaluation unit Bandwidth: 0 to 1 Hz (-3 dB) Linearity: < 0,1 % Accuracy: ±0,01 %/°C Zero point drift: 0,01 % (0 to  $70^{\circ}$  C) Ambiente temperature rotor: -25° to +150° C Power supply: 90 to 270 V AC

