

T1-PCM - Special TUM

Operating Instructions



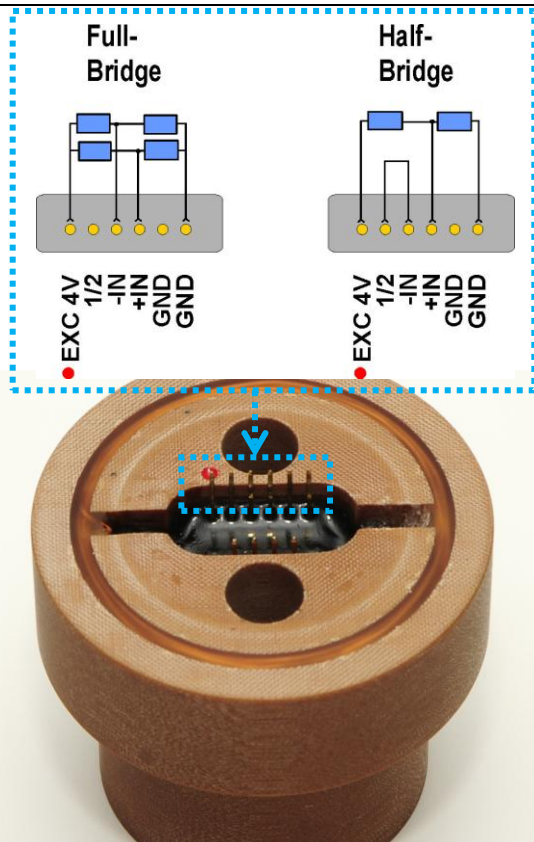
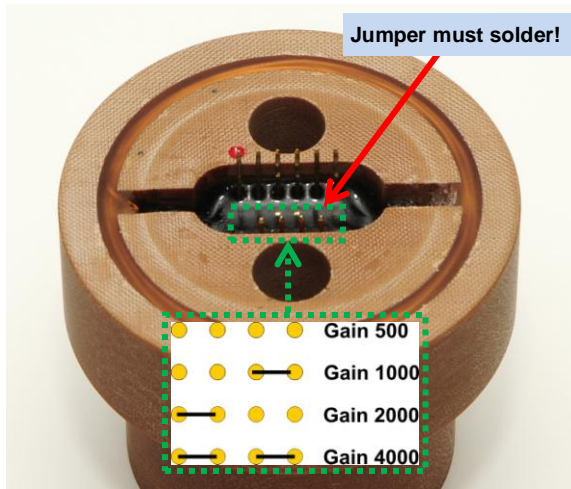
Technical Data Transmitting Part:



T1-PCM-STG - Special

Strain gage: Full and 1/2 bridge >350 Ohm,
 Excitation: 4 VDC (fixed)
 Gain: 500; 1000; 2000; 4000 (selectable by jumper!)
 AZ: Auto Zero calibration (via AZ button from receiver side)
 Analog signal bandwidth: 0 - 1200 Hz (-3 dB)
 Operating temperature: - 10 to + 80 °C
 Resolution 16bit
 Scanning rate 7.5kHz
Static acceleration: up to 3000g
 Powering: Inductive
 Housing: splash-water resistant IP65 (except the connector pins)

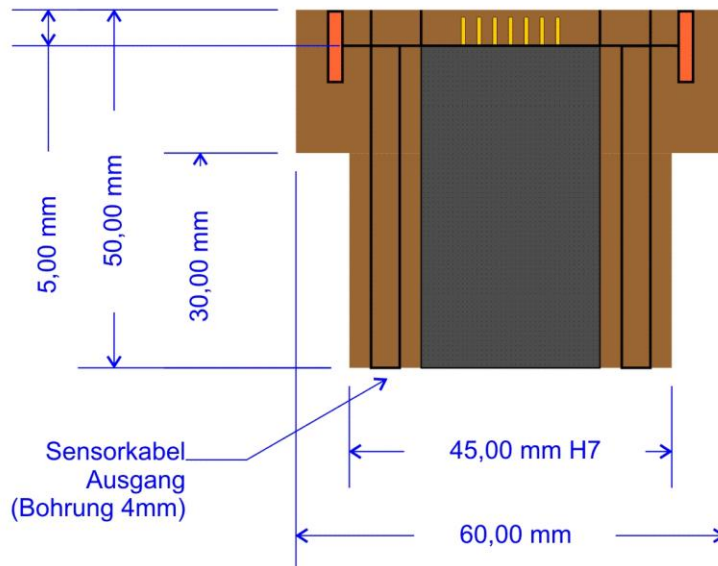
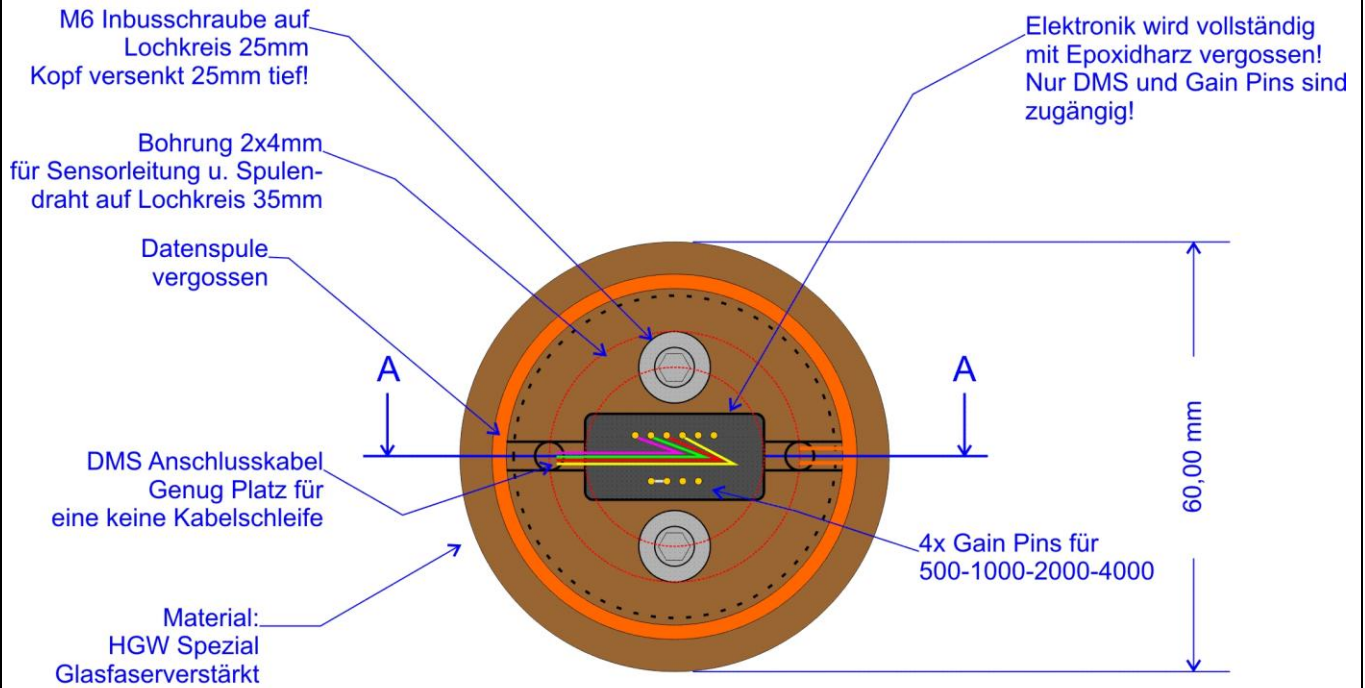
**Restart the system after
 gain setting!!!
 (Power OFF/ON)**



Draw Transmitting Part:

T1-PCM-STG Modul
eingebaut in Spezialgehäuse
Montage stirnseitig bis RPM11000!

Um sich gegen eventuell ablösende Teile zu schützen,
empfehlen wir dringend eine Schutzhaube vor der
Inbetriebnahme zu installieren!



Technical data receiving part



Front



Rear

Optional top-hat rail clip

T1-PCM-DEC

Analogue output: +/-10V via BNC output 1200Hz

Optional switchable add. 100Hz filter for the analog output
Optional add. 4-20mA output to the analog output

Auto Zero setting: via AZ button

Autozero LED:

Yellow ON- successful AZ

Yellow OFF- not successful AZ

if flashing, call support of KMT, error in EPROM

SL LED: Red ON = if error of data transmitting

SL LED: Red Flashing = distance to far

Power ON LED: Red ON = if power switch on

Output to Powerhead: via 6-pol. Tuchel

Fuse LED: Flashing if fuse is defect

Powering: 10-30V DC, Input via 7-pol. Tuchel

Switch: ON/OFF

Operating temperature: - 10 to +70 °C

Dimensions: 75 x 105 x 105 (without connectors!)

Weight 750 grams

Static acceleration: up to 200g

System accuracy*: +/- 0.2 %

*<*measure with gain 1000, 350ohm (0.1%) full bridge - test bridge!>*



T1-PCM-Pickup/Powerhead (standard version)

Function: Receiving inductive PCM modulated data from the coil of the T1-PCM-STG unit

Distance between the transmitter coil and the pickup is 5-30*mm

Output to T1-PCM-Decoder: Via 6-pol. Tuchel plug incl. 5m cable

Operating temperature: - 10 to +80 °C

Dimensions: 53x66x30mm (without cable)

Weight: 200 grams (without cable!)

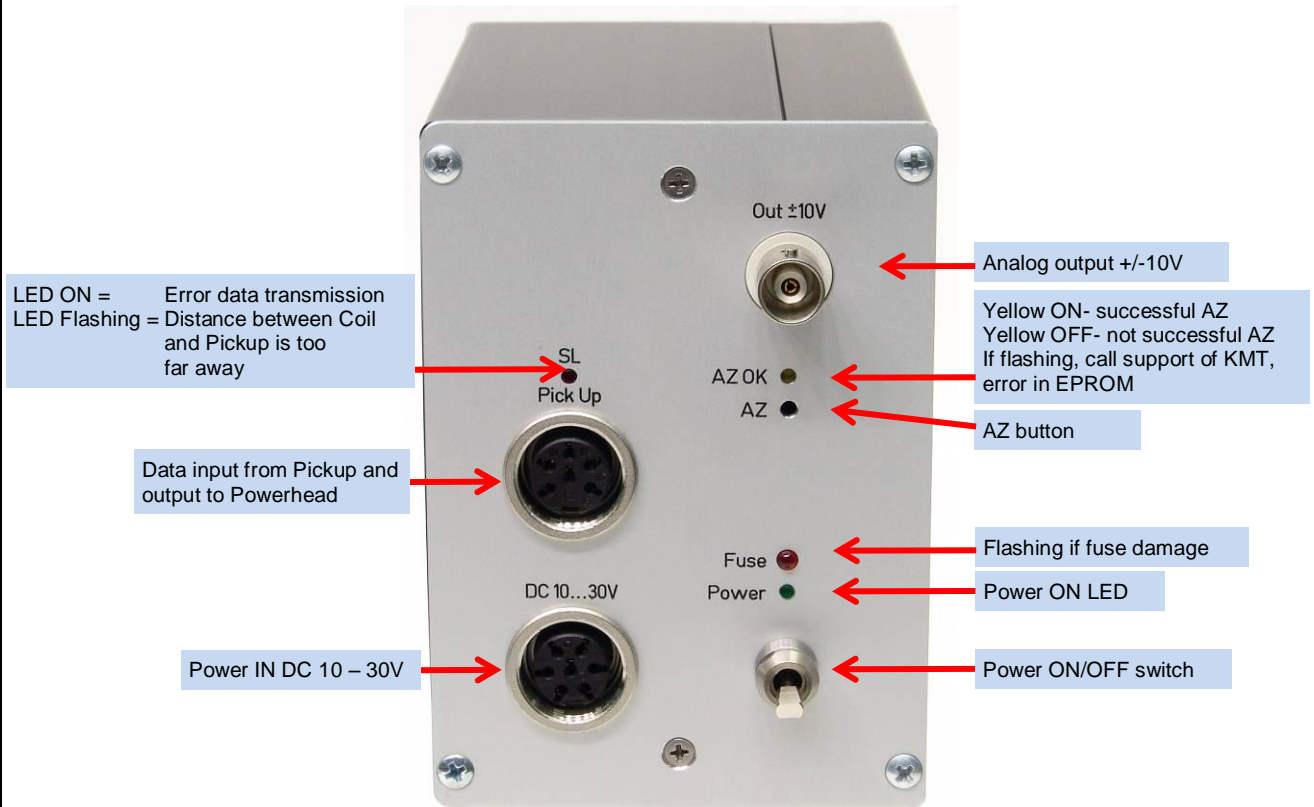
Housing: splash-water resistant IP65 (except connector).

Cable length standard 5m! Optional 10 or 15m

* (depend of shaft diameter!)

Receiving part:

Front



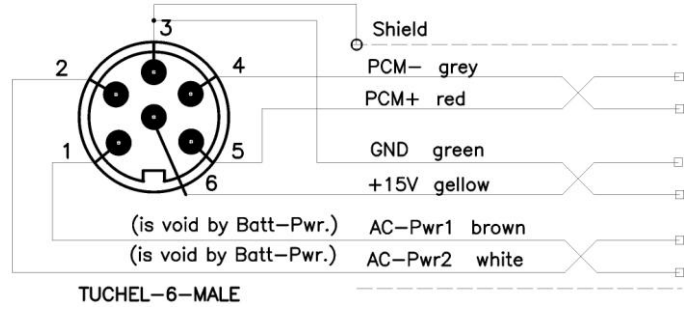
Rear



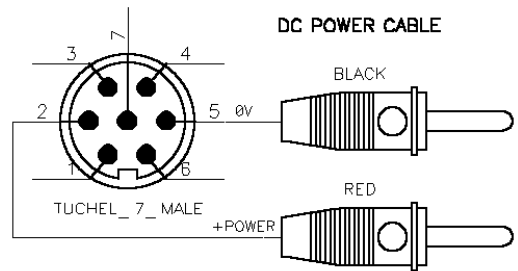
Pin connection:

Powerhead / Pickup

Standard version for distance of 5-25mm
(Optional 5-35mm)



DC-Power cable



Dimensions Powerhead / Pickup (Narrow)

for distance 5-20mm between coil and head

