



TECHNICAL SPECIFICATION
For MINIATURE TYPE HIGH ACCURACY
PRESSURE TRANSMITTERS

TC 65807 Rev01
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- 1) Application : To measure the pressure in the system, and to mount along with the Pressure Gauge 2-way valve for the purpose of remote data acquisition.
- 2) Type : **Miniature , less weight**, Piezoresistive sensor element type / strain gauge type / capacitance/ Diaphragm type
- 3) Medium of measurement: Air, water, Lube Oil, **Steam** and Condensate.
- 4) Safe over load : 150%
- 5) Input Supply : 10 to 30 V DC with reverse polarity protection
- 6) Out put :
 - a. Span : 2 –wire, Analog 4 to 20mA
 - b. Load resistance : 50x(supply volts-10) upto 1.6KOhm max with 42VDC supply
 - c. Supply variation effect: less than 0.005% of span
 - d. Zero&span : span continuously adjustable to the range mentioned
 - e. Accuracy : Thermal non linearity: 0.1% span max.
Longterm stability : better than +/- 0.1% span over 1000 hours.
 - f. Output noise : 0.08% RMS, 1 Hz to 1 MHz max.
 - g. Response time : Less than 4 mSec to 90% of the output change.
- 7) Operating Temperature: **0 to 100 deg C**
- 8) Thermal Shift : 0.005 sensitivety % / degC
- 9) Determination of characteristics: Limit Point adjustment acc. To DIN 16 086
- 10) Charactersistics : Linear
- 11) Hysteresis : < 0.1%
- 12) Zero Adjustment : Externally Adjustable
- 13) Calibration : To be possible at user end also.
- 14) Repeatability : < 0.1%
- 15) Calibration Position : Upright, diaphragm points downwards
- 16) Vibration Resistance : max 0.01% span/g (15g peak, 5-2000 Hz, 0.9mm double amplitude
- 17) Shock : 100g half size wave pulse of 11ms duration, and if it drops from 1000mm on to a steel plate
- 18) Relative Humidity : 10 to 95%
- 19) Radio Frequency interference : Less than 1% span effect from 10V/m, 20-500 MHz.
- 20) Range & Quantity:

Sl.No	Material Code	Range	%accuracy	quantity
1	TC9765807015	0-10 Kg/Cm2	+/- 0.1%	5
2	TC9765807040	0-16 Kg/cm2	+/- 0.1%	4
3	TC9765807023	0-50 Kg/cm2	+/- 0.1%	5
4	TC9765807031	-1 to +1 kg/Cm2	+/- 0.1%	2
5	TC9765807058	0 to 1 ATA	+/-0.1%	2
6	TC9765807066	0-250 Kg/cm2	+/-0.1%	3
7	TC9765807074	0-400 Kg/cm2	+/-0.1%	3

Date : 25-01-13

Prepared By :
P SRIDHAR

Approved By :
R ANJANEYULU



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Physical:

- a. Wetted parts : Type 316 SS or type 17-4 SS
- b. Housing : As per IP 67 or IP65 or IP54
- c. Pressure connection: M20 x 1.5 mm (Male)
- d. Electrical/DAS Connection : two pin AMPHENOL male and female circular connection supplied with mating socket or equivalent
- e. Weight : Less than 300 grams
- f. Size : **as small as possible, miniature type**, suitable to mount on impulse line along with pressure gauge 2-way valve.

21) Spike protection : to withstand 600V peak 1.2 μ sec to 50 μ sec (IEC 60-2) without performance degradation

22) General :

- a) Calibration records, operating and installation instruction should accompany the consignment
- b) Matching connectors should be included
- c) Offer should include technical description, leaflets and catalogues

23) Guarantee : Performance shall be guaranteed for a period of one year from the date of commissioning

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