



TECHNICAL SPECIFICATION
For
MINIATURE TYPE PRESSURE TRANSMITTERS

TC 65807
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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(temperature upto 400degC)** 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 : i)Thermal non linearity: 0.25% span max.
ii) Non repeatability: +/- 0.05% span max
 - f. Longterm stability : better than +/- 0.1% span over 1000 hours.
 - g. Output noise : 0.08% RMS, 1 Hz to 1 MHz max.
 - h. Response time : Less than 4 mSec to 90% of the output change.
- 7) Operating Temperature: **0 to 500 deg C for 0-50 kg/cm2 gauge in Item no.22**
0° C to 100° C for others
- 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%	10
2	TC9765807015	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

*Note: We have used same material codes for 0-16 Kg/cm2 and 0-10 Kg/cm2. However the ranges for them shall be as per the above table.

Date : 25-01-13

Prepared By :

Approved By :

Manager / Testing (Steam Turbines)
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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 connection or DIN 43650 plug 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

Probable suppliers:

1. M/s TRANSAMERICA

2. M/s WIKA Alexandar wiegand GmbH & Co. KG
Alexander-wiegand-strabe 30
63911 klingenberg / Germany
Phone (+49) 93 72/132-9986
Fax (+49) 93 72/132-217
Email: testequip@wika.de
www.wika.co.in

Local Agent:
WIKA Instruments India Pvt.Ltd
Village Kensand, Pune-412207, India
Phone: 0091-20-7052901/07.
Fax: 7051925-1926
email: sales@wika.co.in -

3. M/s. SCHMIERER GMBH, NEUWEG 2,
D-64521 GROSS-GERAU,
TEL: 0049-(0) 6152-9801-5
FAX: 0049-(0) 6152-9801-70.

LOCAL AGENT:
M/s. ES Sales Exim Pvt.Ltd.
Lingapur Buildings,
3-6-237/306, (III floor),
Himayathnagar, Hyderabad-29.
Ph.No.:040-23221230,23220587, 23227516
Fax: 040-23225860. Cell:9440055121

4. M/s. Fantinelli srl. 21058 solbrate olona (varese-italia)
via trieste, 8. c.f./p.l. 00039940127
TEL: 0039-0331-642232 (3 lines r.a).
FAX: 0039-0331 641783 .

LOCAL AGENT:
M/s. EMKAY ENGG ENTERPRISES.
Lingapur House,
3-6-237/306, (III floor),
Himayathnagar, Hyderabad-29.
Ph.No.:040-3221230,3220587, 3227516

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