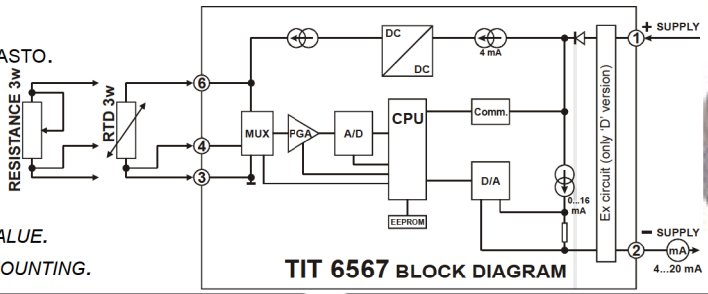
TRASMETTITORE PROGRAMMABILE a 2-FILI
2-WIRE PROGRAMMABLE TRANSMITTER
TIT 6567

- **INGRESSO PER RTD E OHM.**
- ELEVATA PRECISIONE DI MISURA.
- COLLEGAMENTO A 3 FILI.
- VALORE D'USCITA PROGR. PER GUASTO.
- PER MONTAGGIO IN TESTA DIN B

- ***RTD AND OHM INPUT.***
- *HIGH MEASURAMENT ACCURACY.*
- *3-WIRE CONNECTION.*
- *PROGRAMMABLE SENSOR ERROR VALUE.*
- *FOR DIN FORM B SENSOR HEAD MOUNTING.*



TIT 6567 BLOCK DIAGRAM

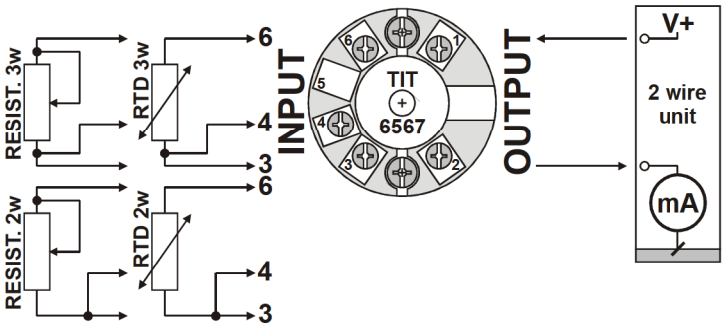
GENERALITA'

Applicazioni:
• Misura di temperatura linearizzata per segnali provenienti da termoresistenze Pt100...Pt1000 o Ni100 ...Ni1000.
• Conversione di resistenze lineari in segnale analogico in corrente.
Caratteristiche tecniche:
• Programmazione rapida del TIT 6567 per tutti i campi di temperatura.
• Compensazione del cavo per il collegamento a 3 fili.
Installazione e montaggio:
• Per testa sonde DIN B o montaggio a barra DIN con accessorio.

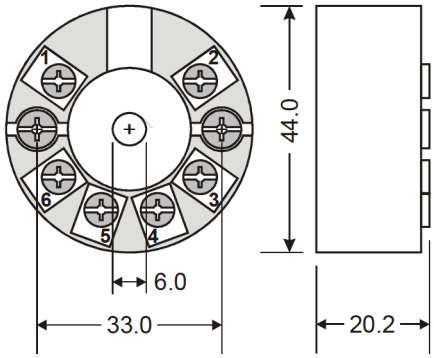
GENERAL DETAILS

Application:
• Linearised temperature measurement with Pt100...Pt1000 or Ni100...Ni1000 sensor.
• Conversion of linear resistance variation to a analogue current signal.
Technical characteristics:
• Within a few seconds the user can program TIT 6567 to measure.
• The RTD and resistance inputs have compensation for 3-wire conn.
Mounting / installation:
• For DIN form B sensor head or DIN rail mounting with special fitting.

COLLEGAMENTO - *APPLICATION*



DIMENSIONI - *DIMENSIONAL DETAIL*



CARATTERISTICHE TECNICHE — *TECHNICAL SPECIFICATIONS*

Supply voltage, DC	*8,0...35VDC (A) 8,0...28VDC (D)*
Internal consumption	*25 mW...0.8 W*
Voltage drop	*8,0 VDC*
Isolation voltage, test / operation	*1.5 kVAC / 50 VAC*
Warm-up time	*5 min.*
Communications interface	*Loop Link*
Signal / noise ratio	*Min. 60 dB*
Response time (programmable)	*0,33...60 s*
EEprom error check	*< 3.5 s*
Signal dynamics, input	*19 bit*
Signal dynamics, output	*16 bit*
Calibration temperature	*20...28°C*

Accuracy, the greater of general and basic values:

General values		
Input type	*Absolute accuracy*	*Temp. coefficient*
All	*≤ ±0.1% of span*	*≤ ±0.01% of span / °C*

Basic values		
Input type	*Basic accuracy*	*Temp. coefficient*
RTD	*≤ ±0,3°C*	*≤ ±0,01 °C/°C*
Lin , R	*≤ ±0,2 ohm*	*≤ ±20 mohm/°C*

Effect of supply voltage variation	*< 0.005% of span / VDC*
Vibration	*IEC 60068-2-6 Test FC*
Lloyd's specification no. 1	*4 g / 2...100 Hz*
Max. wire size	*1 x 1.5 mm² stranded wire*
Operating Temperature - Humidity	*-40...+85°C <95% RH (n.c.)*
Dimensions	*Ø 44 x 20.2 mm*
Protection degree (encl. / terminal)	*IP68 / IP00*
Weight	*50 g*

Electrical specifications, input:

RTD	Min value	Max value	Min span	Standard
Pt100	-200°C	+850°C	25°C	IEC60751
Ni100	- 60°C	+250°C	25°C	DIN43760
Lin, R	0 ohm	10.000ohm	30ohm	----------

Max. offset	*50% of selec. max. value*
Cable resistance per wire (max.)	*10 ohm*
Sensor current	*> 0.2 mA, < 0.4 mA*
Effect of sensor cable res. (3-wire)	*< 0.002 ohm / ohm*
Sensor error detection	*Yes*
Current output:	
Signal range	*4...20 mA*
Min. signal range	*16 mA*
Updating time	*135 ms*
Load resistance	*≤ (Vsupply- 8.0) / 0.023 [ohm]*
Load stability	*< ±0.01% of span / 100 [ohm]*
Sensor error detection:	
Programmable	*3.5...23 mA*
NAMUR NE43 Up / Down scale	*23 mA / 3.5 mA*
EMC immunity influence:	*< ±0.5% of span*
Marine approval:	
Det Norske Veritas, Ships & Offshore	*Stand. for Certific. No. 2.4*
Observed authority requirements: Standard:	
EMC 2004/108/EC	*EN 61326-1*
ATEX 94/9/EC	*EN 50014, EN 50020, EN 50281-1-1, EN 50284, EN 61241-0, EN 61241-11*
FM	*3600, 3611, 3610*
CSA, CAN / CSA	*C22.2 No. 157, E60079-11, UL 913*

***Of span** = Of the presently selected range*

THERMOSYSTEMS s.r.l Via delle Industrie, 8 - 24040 Fornovo San Giovanni (BG) - ITALY
phone: (+39) 0363 350159 fax: (+39) 0363 350362 web: www.thermosystems.it e-mail: info@thermosystems.it