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# ZTT40GD

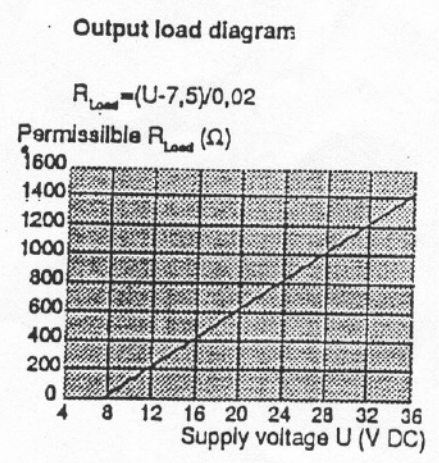
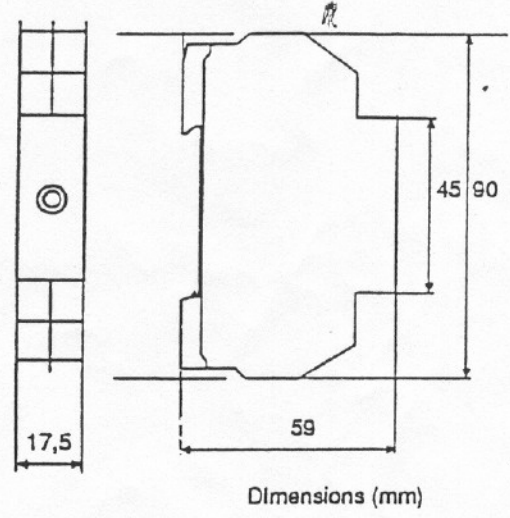
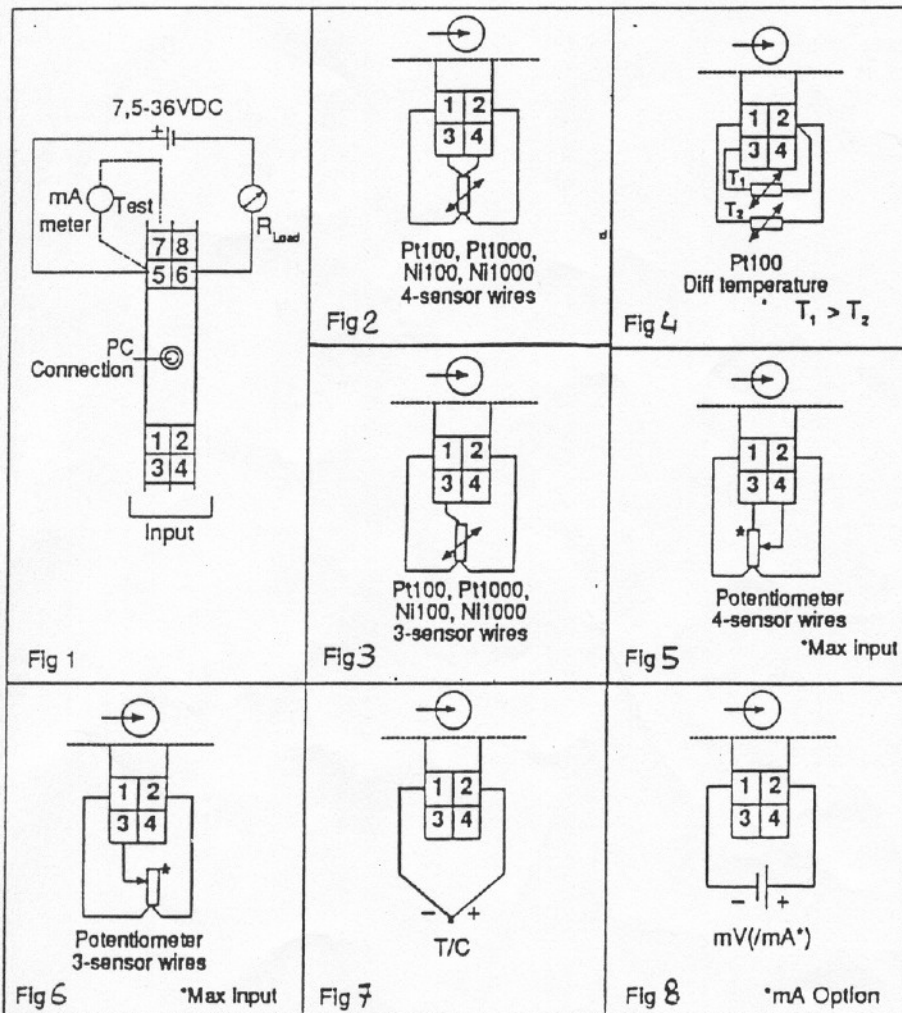
M.I.U. ZTT40GD-1/97.4

## GENERAL INFORMATION

ZTT40GD is a two-wire transmitter intended to be used in industrial environment.

## CONNECTIONS

1. Power supply and output signal are connected according fig. 1
2. Input signal is connected according to figure 2.....8



**Short form data:**  
 Power supply: 7,5 - 36 VDC  
 Ambient temperature: -20 - +70°C  
 Isolation Input/output/PC: 1500VAC  
 Typical accuracy: 0.2%  
 Mounting: Rail, DIN50022

All information subject to change without notice

TECHNICAL SPECIFICATIONS		
Inputs		Pt100, Pt1000, Ni100, Ni1000, Potentiometer, T/C, mV
<b>Resistance sensors</b>		
Pt100	3, 4-sensor wires, differential	-200 to +1000 °C
Pt1000	3, 4-sensor wires	-200 to +200 °C
Ni100	3, 4-sensor wires	-60 to +250 °C
Ni1000	3, 4-sensor wires	-60 to +150 °C
Potentiometer	3, 4-sensor wires	0 - 2000 Ω
Sensor current		appr. 0,4 mA
Maximum permissible sensor wire resistance		25 Ω
<b>Voltage sensors</b>		
Maximum permissible sensor wire resistance		500 Ω
Thermocouples		AE <sup>3)</sup> , B, E, J, K, L, N, R, S, T, U and custom specified
mV input		-10 to +500 mV
Input impedance		> 10 MΩ
Current input	Option <sup>6)</sup>	-1 to +50 mA
Input impedance	mA	10 Ω
Supervision of input	Open input drive	Output selectable between 3,6 to 21,6 mA
<b>Adjustments</b>		
Zero adjustments	(all input types)	No limit
Smallest input range	Pt100, Pt1000, Ni100 and Ni1000	10 °C
	Potentiometer	10 Ω
	Thermocouples and mV	2 mV
	mA	0,4 mA
<b>Output</b>	Current	4-20 mA or 20-4 mA
	Resolution	5 μA
	Min output signal	appr. 3 mA
	Max output signal	appr. 22 mA
	Output for instrument calibration, selectable 1-30 min	4, 12, 20, 12, 4, ... mA in 15 s interval
<b>Temperature</b>		-20 to +70 °C
<b>General specifications</b>	Measuring time	appr. 0,5 s
	Humidity (relative humidity non-condensing)	0 to 95 %
	RFI sensitivity, 20-1000MHz, 10 V/m	typ < 0,1 % <sup>1)</sup>
	Isolation input/output/PC	1500 VAC, 1 min
<b>Supply voltage</b>		7,5 to 36 VDC
	Reverse supply voltage protection	Yes, 36 VDC
	Permissible ripple of supply voltage	4 V p-p
<b>Error specifications<sup>3)</sup></b>		
Linearity, terminal based	Pt100, Pt1000, Ni100 and Ni1000	0,1 % <sup>2)</sup>
	Thermocouples	0,2 % <sup>2)</sup>
Calibration inaccuracy	Pt100, Pt1000, Ni100 and Ni1000	Max of 0,2 °C or 0,1 % <sup>1)</sup>
	Potentiometer	Max of 0,1 Ω or 0,1 % <sup>1)</sup>
	Thermocouples and mV	Max of 20 μV or 0,1 % <sup>1)</sup>
	Cold junction compensation	0,5 °C
Temperature effect	Ambient temp. > 0 °C and < 50 °C	Max of 0,005 °C/°C or 0,005 %/°C <sup>2)4)</sup>
	Ambient temp. < 0 °C or > 50 °C	Max of 0,01 °C/°C or 0,01 %/°C <sup>2)4)</sup>
	Cold junction compensation	0,02 °C/°C
Sensor wire resistance effect		Without influence
Output load effect		Without influence
Supply voltage effect		Without influence
Supply ripple effect 50 Hz 4 V p-p		Without influence
Long term stability		0,1 %/Year <sup>1)</sup>
<b>Miscellaneous, Weight</b>		appr. 70 g
Material/flammability		PC, Glassfibre/V0
Protection		IP10
Wire connection (single/stranded)		≤ 1,5 mm <sup>2</sup>
Mounting		Rail acc to DIN 50022, 35 mm

<sup>1)</sup> Of end value

<sup>2)</sup> Of input span

<sup>3)</sup> Error specifications at ambient temperature 25 °C

<sup>4)</sup> If zero deflection > 100% of input span: add

0,005%/°C of input span / 100% zero deflection

<sup>5)</sup> Tungsten 5% Rhenium - Tungsten 26% Rhenium

<sup>6)</sup> The transmitter can only be used for current input