

ZT508 DIGITAL BARGRAPH INDICATOR/CONTROLLER

Introduction

Ztech's Digital Universal process Bar graph indicator model ZT508 is designed to indicate process parameters like temperature, level, flow, pressure etc as per the process requirement for various applications and indicate bargraph in 51 LED Bar or 101 LED Bar . It can display the process value with the resolution of 4 digits. The range is selectable from -1999 to 9999 scale with selectable decimal resolution.

It can generate max Two relay output (on/off) per Channel for various application with hi/lo selection.

The hysteresis is programmable through out the range. It can generate analog output as retransmission & give computer connectivity port on Modbus protocol or GSM connectivity as an optional feature. They are very reliable, accurate employing the latest technology.

Features

Input	: Universal inputs (1/2 Channel) Linear Input :(0-10VDC, 0-1VDC,0-100mV),Current(0-20mA,4-20mA) Non Linear Input: Thermocouple types, E, J, K, L, N, R, S, and T Non Linear input: Resistance thermometer: Pt100, CU53, And P46
Display	: 0.39"(10mm) Super Bright Red LED Display (4 Digit) 51/101 LED Bargraph
Display Range	: Linear Input:-1999 to 9999 For RTD: -50.0 to 600.0 For Thermocouple J (-175 to 730 Degree),K (-250 to 1300 Degree) R (0 to 1800 Degree),S (0 to 1800 Degree) T (-200 to 400 Degree),N (-200 to 1300 Degree) B (0 to 1800 Degree),E (-200 to 1000 Degree)
High Accuracy	: 0.1% of Span (Linear),0.25% of Span(Non Linear)

Configuration Functions/Parameters

Configuration Data	: 4 Tactile Membrane Keys for Data Configuration
Indication	: Alarm /Communication Indication
Message	: Error Message

Output

Retransmission	: 2*4-20mA (Opto & Galvanic Isolated) (600 Ohms Loading Capacity) 2*0-10V DC(Opto & Galvanic Isolated) (600 Ohms Loading Capacity)
Control Alarm Relay	: Max 2 Relay / Channel (5A/230VAC)
Communications	: RS 485
Compatible with GPRS /GPS	: Yes

Special Function (Optional)

Universal input	
Field Calibration not require for change to other input	
Alarm output Hi/Lo, fail safe, with programmable hysteresis.	
All calibration/configuration can be done from front keys	
PC/GSM connectivity with SCADA software.	
Input sensor fail output upscale/downscale user define from front keys.	
Input Signal Filter Option	
Alarm Acknowledgment Function	
No Calibration require for different types of input in case of Universal Input	
Input /Output:4-20mA/20-4mA (Selectable) (Optional)	



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Special Function (Optional)

Input: Linear /Square root Selectable (Optional)

Damping Count (Optional)

Time Delay for Alarm Activation(Optional)

Alarm Reset/Acknowledgement(Optional)

Specification :Environmental

Ambient Temperature Range : 0 To 55 °C (For Integral Flow Meter)

Ambient Humidity Range : 5 To 95 % Rh (Non-Condensing)

Security : Password Protection for Configuration of Data

Power Supply : 90 - 260 VAC 50/60Hz,24VDC,12VDC

Specification : Physical

Weight : 500 to 900 gms.

Enclosure : ABS plastic molded, Weather / Flame Proof

Protection :

Dimension : 96(H)*96(W)110(D),144(H)*36(W)120(D),144(H)*72(W)120(D)

Mounting : Panel, Wall ,Pipe

Application

Pressure/ Level/ Flow Monitoring

Pharmaceutical Application

Power Industries

Cement Industries

Temperature & process indication

Plastics moldings& temperature monitoring

Heat treatment - furnace temperature monitoring

Water heating boilers



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Ordering Code

ZT501-XX X X X X X X X X (10 Digit Code)

Option 1:Input Signal Channel-1

- 0 - Universal (0/4 – 20mAdc, mV, V, Cu53, Pt.100),Tc
- 1 – Fix RTD
- 2 – Fix 4-20mA
- 3 – Fix 0-10VDC
- 4 – Fix Thermocouple
- 5 – Fix mV input
- 6 – Fix Voltage input
- 7 – User Define

Option 2:Input Signal Channel-2

- 0- Universal (J K R S T, 0 – 20mAdc, mV, V, Pt.100, Cu53)
- 1 – Fix RTD
- 2 – Fix 4-20mA
- 3 – Fix 0-10VDC
- 4 – Fix Thermocouple
- 5 – Fix mV input
- 6 – Fix Voltage input
- 7 – User Define

Option 3:Power(X)

- 0 – 90 to 260 VAC
- 1 – 24 VDC
- 2 – User Define

Option 4:Digital Output

- 0 - No relay
- 1 - One relay
- 2 - Two relay
- 3 - Three relay
- 4 - Four relay

Option 5:Analog Output

- 0 - None
- 1 - 4 – 20mAdc isolated (Single O/P)
- 2 - 4 – 20mAdc isolated (Dual O/P)
- 3 - 0-10Vdc isolated (Single O/P)
- 4 - 0-10Vdc isolated (Dual O/P)

Option 6:Communication Output

- 0 - None
- 1 – RS485 Modbus RTU
- 2 – GPRS/GSM Connectivity

Option 7:Display Size

- 0 – 0.56"Seven Segment Digit(Normal Display)
- 1 – 0.8" Seven Segment Digit
- 2 – 1.8" Seven Segment Display
- 3 – 2.3" Seven Segment Display
- 4 – 4.0" Seven Segment Display
- 5 – 6.0" Seven Segment Display
- 6 – 8.0" Seven Segment Display
- 7 – 4.0" Outdoor LED Display
- 8 – 6.0" Outdoor LED Display
- 9 – User Define Indoor/Outdoor LED/Seven segment Display

Option 8:Dimension

- 0 – 96(W) * 48(H) * 95(D)mm
- 1 – 96(W) * 96(H) * 95(D)mm
- 2 – Weather proof Sheet metal box
- 3 – Flame proof class IIA IIB without Push Button 2" Pipe Mounted(054 Drawing)
- 4 – Flame proof class IIA IIB with Push Button Wall Mounted(061 Drawing)
- 5 – Flame proof class IIA IIB without Push Button 2" Pipe Mounted
- 6 – Flame proof class IIA IIB Wall Mounted
- 7 – Special Enclosure

Option 9:(Bargraph)

- 0 – 51 LED Dual Bar graph Indicator / Controller 96*96mm
- 0 – 101 LED Dual Bar graph Indicator / Controller 144*72mm
- 0 – 101 LED Dual Bar graph Indicator / Controller 144*72mm
- 0 – 101 LED Single Bar graph Indicator / Controller 144*36 mm

Option 10:(X)

- 0 – None

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