

## ZT509 PEAK HOLD INDICATOR / CONTROLLER

### Introduction

Ztech's ZT509 Peak Hold Indicator comes with stop feature on sample break. It is specially designed for digital tensile testing machine and ultimate torque strength testing machine. This indicator finds use in most manufacturing industries, specially where strength has to be tested like springs, crimps, switchgear parts, wires and threads. It can display two parameter like stress ,peak load etc. 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 Channel)<br>Linear Input :( 0-10VDC, 0-1VDC,0-100mV),Current(0-20mA,4-20mA)<br>Non Linear Input: Thermocouple types, E, J, K, L, N, R, S, and T<br>Non Linear input: Resistance thermometer: Pt100, CU53, And P46                                       |
| Display       | : 0.56"(12mm) Super Bright Red LED Display (4 Digit)   |
| Display Range | : Linear Input:-1999 to 9999<br>For RTD: -50.0 to 600.0<br>For Thermocouple<br>J (-175 to 730 Degree),K (-250 to 1300 Degree)<br>R (0 to 1800 Degree),S (0 to 1800 Degree)<br>T (-200 to 400 Degree),N (-200 to 1300 Degree)<br>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)<br>(600 Ohms Loading Capacity)<br>2*0-10V DC(Opto & Galvanic Isolated) |
| Control Alarm Relay       | : Max 2 Relay / Channel (5A/230VAC)  |
| Communications            | : RS 485   |
| Compatible with GPRS /GPS | : Yes  |

### Special Function (Optional)

Instruments always in Peak condition correspond to input  
Peak hold is resettable from front Reset Switch  
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.  
Input sensor fail output upscale/downscale user define from front keys.



**Peak Hold Indicator / Controller  
ZT509**

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**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)  
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- None

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

**Option 9:(X)**

- 0 – None

**Option 10:(X)**

- 0 – None

**Terminal Details:**

