

Low-cost Programmable Display TI08



- ◆ **Lowest cost**
- ◆ **4 DIN cases - up to 1/32 DIN**
- ◆ **4-digit bright LED indication**
- ◆ **Universal linear input**
- ◆ **Up to 2 alarm relays available with pulsed output**
- ◆ **Fully programmable parameters**

TI08 is a cheap programmable process indicator available in 4 DIN cases and designed for wide range of display applications with/without relay alarm. Equipped with a bright 4-digit LED display, this model is especially suitable for measuring and controlling various technological values from -1999 to 9999 with resolution of up to 6000 points. The device may be equipped with up to 2 programmable relays providing on/off control/alarm with or without pulse mode. TI08 accepts various linear input voltage or current signals. The display limits, decimal point position, measurement offset value as well as many other parameters are fully programmable. Thanks to its excellent price-to-performance ratio, TI08 is an exceptionally widely applicable device.



Technical specifications

Input <i>(programmable)</i>	
<i>Linear voltage 0...10 V</i>	-1999...9999, programmable
<i>Linear voltage 0...5 V ⁽¹⁾</i>	-1999...9999, programmable
<i>Linear current 0(4)...20 mA</i>	-1999...9999, programmable
<i>Custom linear (option)</i>	-1999...9999, programmable
<i>Two-wire external transmitter</i>	4...20 mA ⁽²⁾
<i>Decimal point selection</i>	programmable
Outputs <i>(up to 2 relay outputs)</i>	
<i>Relay electromechanical</i>	5A/250V w/ NO/NC ⁽³⁾ contact ⁽⁴⁾
<i>Solid state relay</i>	1A/250VAC ⁽⁵⁾
<i>MOS gate</i>	0.1A/60V, optically isolated
<i>Output for external SSR</i>	5...24 V, 50 mA
<i>Control algorithm</i>	ON/OFF, pulse mode
<i>Alarms</i>	programmable
Accuracy	
<i>Measurement error</i>	0.3% from span
<i>Temperature drift</i>	0.02% from span for 1 °C
Operating conditions	
<i>Operating temperature</i>	-10...65 °C
<i>Operating humidity</i>	0...85 %RH

Power supply	
<i>Mains supply voltage</i>	230 VAC ⁽¹⁾ or 115 VAC ⁽¹⁾
<i>SMPS voltage</i>	90...250 VAC/DC ⁽⁶⁾
<i>Isolated low voltage</i>	12...24 VAC/DC or 24 VAC ⁽¹⁾
<i>Non-isolated low voltage</i>	12...24 VAC/DC
<i>External mains transformer ⁽⁷⁾</i>	9(12) VAC
<i>Consumption</i>	max. 1.5 VA
Indication and controls	
<i>Digital display</i>	4 LED indicators
<i>LEDs</i>	2 LEDs for output state
<i>Keyboard</i>	2 membrane keys, lockable
Design and materials	
	'H' 'S' 'L' 'M'
<i>Front dimensions [mm]</i>	96x48 48x48 72x36 48x24
<i>Mounting</i>	panel panel / rail panel panel
<i>Panel cutout [mm]</i>	90x42 45x45 71x29 46x22
<i>Mounting depth [mm]</i>	98 95 56 42
<i>Display digit height [mm]</i>	14 9 14 9
<i>Maximum weight [g]</i>	250 200 150 30
<i>Protection, front/terminals</i>	IP54/20 IP54/20 IP54/20 IP54/20
<i>Increased front IP (option)</i>	IP65 - IP65 -
<i>Case material</i>	plastic plastic plastic plastic
<i>Wiring (terminals)</i>	plug-in socket ⁽⁷⁾ screw screw

⁽¹⁾ Not available for case 'M'
⁽²⁾ Provides loop supply voltage - 24 VDC (only w/ isolated power supply)
⁽³⁾ NO for case 'S'
⁽⁴⁾ Only one relay 3A/250VAC w/ NO contact for case 'M'
⁽⁵⁾ 0.2A/250VAC for cases 'L' and 'M'
⁽⁶⁾ Available ONLY for case 'H'!
⁽⁷⁾ Ordered separately (see 'Accessories')
⁽⁸⁾ Not available for case 'S'

Ordering code TI08 - G0.G1.G5G5 - #1.#2

Code	Feature or option	Code values
G0	Case (front size)	H - 96x48 mm, S - 48x48 mm, L - 72x36 mm, M - 48x24 mm
G1	Power supply	A - 230 VAC ⁽¹⁾ , B - 115 VAC ⁽¹⁾ , C - 90...250 V ⁽⁶⁾ , E - 9(12) VAC w/ external transformer ⁽⁷⁾ , P - 12...24 V, non-isolated, Q - 12...24 V, isolated, R - 24 VAC ⁽¹⁾
G5	Relay output ⁽⁴⁾	X - none, C - relay NO/NC ^(3,4) , D - SSR, J - for external SSR, M - isolated MOS gate
#1	Increased front protection	X - none, P - IP65 front protection ^(1,8)
#2	Customer specified input signal	X - none, Z - custom linear signal (specify!)