Low-cost Programmable Display TI08

♦ **Lowest cost**
♦ **5 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 5 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	(programmable)
Linear voltage 0...10 V	-1999...9999, programmable
Linear voltage 0...5 V [1]	-1999...9999, programmable
Linear current 0(4)...20 mA	-1999...9999, programmable
Custom linear (option)	-1999...9999, programmable
Two-wire external transmitter	4...20 mA [2]
Decimal point selection	programmable

Outputs	(up to 2 relay outputs [3])
Relay electromechanical	5A/250V w/ NO/NC [4] contact
Solid state relay	1A/250VAC [5]
MOS gate	0.1A/60V, optically isolated
Output for external SSR	5…24 V, 30 mA
Control algorithm	ON/OFF, pulse mode
Alarms	programmable

Accuracy	
Measurement error	0.3% from span
Temperature drift	0.02% from span for 1 °C

Operating conditions	
Operating temperature	-10...65 °C
Operating humidity	0...85 %RH

Power supply	
Mains supply voltage	230 VAC [1] or 115 VAC [1]
SMPS voltage	90…250 VAC/DC [6]
Isolated low voltage	12…24 VAC/DC or 24 VAC [1]
Non-isolated low voltage	12…24 VAC/DC
External mains transformer [7]	9(12) VAC
Consumption	max. 1.5 VA

Indication and controls	
Digital display	4 LED indicators
LEDs	2 LEDs for output state
Keyboard	2 membrane keys, lockable

Design and materials	'B'	'H'	'S'	'L'	'M'
Front dimensions [mm]	96x96	96x48	48x48	72x36	48x24
Mounting	panel	panel	panel	panel	panel
Panel cutout [mm]	90x90	90x42	45x45	71x29	46x22
Mounting depth [mm]	98	98	100	56	42
Display digit height [mm]	20	14	10	14	9
Maximum weight [g]	350	250	200	150	30
Protection, front/terminals	IP54/20	IP54/20	IP54/20	IP54/20	IP54/20
Increased front IP (option)	IP65 [8]	IP65	-	IP65	-
Case material	plastic	plastic	plastic	plastic	plastic
Wiring (terminals)	plug-in	plug-in	screw	screw	screw

[1] Not available for case 'M'
[2] Provides loop supply voltage - 24 VDC (only w/ isolated power supply)
[3] Only one for case 'M'
[4] For case 'S' 2nd relay is NO; for case 'L' both relays are NO; for case 'M' relay is 3A/250VAC with NO contact
[5] 0.2A/250VAC for cases 'L' and 'M'
[6] Available ONLY for cases 'B' and 'H'!
[7] Ordered separately (see 'Accessories')
[8] Ask for availability!

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

Code	Feature or option	Code values
G0	Case (front size)	**B** - 96x96 mm, **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 [3]	**X** - none, **C** - relay NO/NC [4], **D** - SSR, **J** - for external SSR, **M** - isolated MOS gate
#1	Increased front protection	**X** - none, **P** - IP65 front protection [1,9]
#2	Customer specified input signal	**X** - none, **Z** - custom linear signal (specify!)

[9] Not available for case 'S'