

Low-cost Process Indicator Tl08

- ◆ Lowest cost
- ◆ 6 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

Tl08 is a low cost programmable process indicator available in 6 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. Tl08 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, Tl08 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 ⁽⁷⁾	1A/250VAC ⁽⁵⁾
MOS gate ⁽⁷⁾	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	
Ambient temperature	-10...65 °C
Ambient humidity	0...85 %RH

Power supply	
Mains supply voltage ⁽¹⁾	230 VAC or 115 VAC
SMPS voltage ⁽¹⁾	90...250 V
Isolated low voltage	12...24 V or 24 VAC ⁽¹⁾
Non-isolated low voltage	12...24 V
External mains transformer ⁽⁶⁾	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' / 'V' '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 / 9 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 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 NO
⁽⁵⁾ 0.2A/250VAC for cases 'L' and 'M'
⁽⁶⁾ Available only for case 'M'. Transformer is ordered separately.
⁽⁷⁾ Ask for availability!

Ordering code configuration

Tl08 -G0.G1.G5G5 -#1.#2

Code	Feature or option	Code values
G0	Case (front size)	B - 96x96 mm, H - 96x48 mm, V - 48x96 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 ⁽¹⁾ , E - 9(12) VAC w/ external transformer ⁽⁶⁾ , 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 ⁽⁷⁾ , J - for external SSR, M - isolated MOS gate ⁽⁷⁾
#1	Increased front protection	X - none, P - IP65 front protection ^(1,8)
#2	Customer specified input signal	X - none, Z - custom linear signal (specify!)

⁽⁸⁾ Not available for case 'S'

Ordering Example: Tl08-H.P.CC-P.X

Tl08 display with 96x48 case, 12...24V non isolated power supply, 2 x relay outputs NO/NC with IP65 front panel protection.