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Programmable Bargraph Display TI250

CE

♦ **Tri-color fully programmable 30-dot LED bargraph**
♦ **3-digit bright LED indication**
♦ **Universal linear input**
♦ **Up to 2 alarm relays available with pulsed output**
♦ **48x96 mm DIN-sized front panel**
♦ **Moving dot / bar programmable modes**
♦ **Custom-design bargraph and scale available**

TI250 is a versatile and non-expensive combination of TI08 programmable process indicator in 48x96mm DIN case and a fully programmable Tri-color LED bargraph. It is designed for wide range of display applications with/without relay alarm. Equipped with a bright 3-digit LED display, this model is suitable for measuring and controlling various technological values from -199 to 999 with programmable resolution. The device may be also equipped with up to 2 programmable relays providing ON/OFF control/alarm with or without pulse mode. TI250 bargraph display allows user programming of every LED dot color, dot/bar display mode as well as customized scale. Like TI08 the unit accepts various linear input voltage or current signals. Display limits, decimal point position, measurement offset value as well as many other parameters are fully programmable. Thanks to its rich display features and excellent price-to-performance ratio, TI250 can be a very useful and widely applicable device.

Technical specifications

Input
	(programmable)
Linear voltage 0...10 V	-199...999, programmable
Linear voltage 0...5 V	-199...999, programmable
Linear current 0(4)...20 mA	-199...999, programmable
Custom linear (option)	-199...999, programmable
Two-wire external transmitter	4...20 mA [1]
Decimal point selection	programmable

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

Digital display
Design	3 LED indicators, 10 mm
Measurement accuracy	0.3% from span
Resolution	programmable
Temperature drift	0.02% from span for 1 °C

Bargraph display
Design	30 LED dots, 2 mm wide
Scale	0…100% or custom design [3]
Mode	programmable: dot or bar
Color	programmable: red, green, or yellow

Power supply
Mains supply voltage	230 VAC or 115 VAC
SMPS voltage	90…250 V
Isolated low voltage	12…24 V or 24 VAC
Non-isolated low voltage	12…24 V
Consumption	max. 3 VA

Indication and controls
LEDs	2 LEDs for output state
Keyboard	3 membrane keys, lockable

Operating conditions
Ambient temperature	-10...65 °C
Ambient humidity	0...85 %RH
Storage temperature	-20...65 °C
Storage humidity	0...95 %RH, non-condensing

Design and materials
Case material	plastic
Mounting	in 42x90 mm panel cut-out
Wiring	plug-in terminals
Dimensions	48x96(front)x107 mm
Mounting depth	98 mm
Weight	max. 300 g
Protection, front/terminals	IP54 / IP20
Increased front IP (option)	IP65

[1] Provides loop supply voltage - 24 VDC (only w/ isolated power supply).
[2] Ask for availability!
[3] Specify when ordering!

Ordering code   TI250 - G1.G2.G5G5 - #1.#2

Code	Feature or option	Code values
G1	Power supply	**A** - 230 VAC, **B** - 115 VAC, **C** - 90…250 V, **P** - 12…24 V, non-isolated, **Q** - 12…24 V, isolated, **R** - 24 VAC
G2	Bargraph display scale	**D** - standard (0...100%), **Z** - custom design (specify!)
G5	Relay output	**X** - none, **C** - relay NO/NC, **D** - SSR [2], **J** - for external SSR, **M** - isolated MOS gate [2]
#1	Increased front protection	**X** - none, **P** - IP65 front protection
#2	Customer specified input signal	**X** - none, **Z** - custom linear signal (specify!)