

Bargraph Indicator TC66

- ◆ Low-cost
- ◆ 4-digit LED display plus 50-dot bargraph
- ◆ Various input signals
- ◆ Well protected from electromagnetic disturbances
- ◆ Moving dot / bar modes available
- ◆ Auxiliary input for display brightness control
- ◆ Custom-design bargraph and scale available

In addition to the digital display, showing the exact value of the measured variable, the TC66 process indicator is equipped with a LED bargraph, indicating the input value as a percentage of the input range and thereby presenting more convenient 'analog' reading. Two variants of the indicator are available: one with a linear, horizontal bargraph ('D') and one with a bargraph in the shape of a 240-degree arc, which provides a visualization resembling that of a traditional pointer-and-dial gauge ('B'). Moving dot and moving bar modes of the bargraph display as well as custom bargraph design are available. Both TC66 variants feature a customized front-panel tag denoting the range and the measurement unit of the monitored physical quantity. The indicator may also be equipped with an auxiliary DC input for display brightness control. The low-priced, low-maintenance TC66 is widely applicable in boat building, power plants, and other industrial areas.



Technical specifications

Input

Linear voltage 0...10 mV ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear voltage 0...20 mV ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear voltage 0...50 mV ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear voltage 0...100 mV ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear voltage 0...1 V ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear voltage 0...2 V ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear voltage 0...5 V ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear voltage 0...10 V ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear current 0...5 mA ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Linear current 0(4)...20 mA ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Custom linear voltage; max. 40 V ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Custom linear current; max. 50 mA ⁽¹⁾	min. -1999...max. 1999 ⁽²⁾
Decimal point position	x1, x0.1, x0.01, x0.001
Display range	specified by customer
Brightness control (option) ⁽³⁾	min. 0...max. 24 VDC

Accuracy

Measurement error	0.4% from span
Temperature drift	0.02% from span for 1 °C

Indication and controls

Digital display	4 LED indicators
Bargraph display ⁽⁴⁾	50 LED dots, 0...100%

⁽¹⁾ Specify lower and upper display limits.

⁽²⁾ Provides loop supply voltage - 24 VDC (only w/ isolated power supply)

⁽³⁾ Specify range within the limits stated.

⁽⁴⁾ Custom display or/and scale design is also available. Ask!

Power supply

Mains supply voltage	230 VAC or 115 VAC
SMPS voltage	90...250 VAC/DC
Isolated low voltage	12...24 VAC/DC or 24 VAC
Non-isolated low voltage	12...24 VAC/DC
Consumption	max. 4 VA

Operating conditions

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

Design and materials

	'B'	'D'
Front dimensions [mm]	96x96	144x72
Mounting	panel	panel
Panel cutout [mm]	90x90	136x66
Mounting depth [mm]	98	92
Display digit height [mm]	10	14
Bargraph shape	240° arc	horizontal bar
Maximum weight [g]	650	650
Protection, front/terminals	IP54 / IP20	IP54 / IP20
Case material	plastic	plastic
Wiring	plug-in terminals	plug-in terminals

Ordering code TC66 - G0.G1.G2.G3.G6'6" - #1

Code	Feature or option	Code values
G0	Case (front size)	B - 96x96 mm, D - 144x72 mm
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	D1 - w/ moving dot, D2 - w/ moving bar, Z - custom design (specify!)
G3	Resolution	B - 1, C - 0.1, D - 0.01, E - 0.001
G6'6"	Input ⁽¹⁾	DA - 0...5 mA, DB - 0...20 mA, DC - 4...20 mA, DE - 0...10 mV, DF - 0...20 mV, DG - 0...50 mV, DH - 0...1 V, DI - 0...2 V, DJ - 0...5 V, DK - 0...10 V, DZ - other
#1	Auxiliary input	X - none, BC - input for brightness control mounted ⁽³⁾

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