

## Specifications

|                                     |   |
|-------------------------------------|---|
| Variant Input                       | <input type="checkbox"/> 'B', <input type="checkbox"/> 'D'<br><input type="checkbox"/> 0...5 mA, <input type="checkbox"/> 0...20 mA, <input type="checkbox"/> 4...20 mA,<br><input type="checkbox"/> 0...10 mV, <input type="checkbox"/> 0...20 mV, <input type="checkbox"/> 0...50 mV,<br><input type="checkbox"/> 0...1 V, <input type="checkbox"/> 0...2 V, <input type="checkbox"/> 0...5 V, <input type="checkbox"/> 0...10 V,<br><input type="checkbox"/> .....<br><input type="checkbox"/> ....., for display brightness control |
| Auxiliary Input                     | <input type="checkbox"/> ....., for display brightness control  |
| Digital-display Range               | <input type="checkbox"/> 1, <input type="checkbox"/> 0.1, <input type="checkbox"/> 0.01, <input type="checkbox"/> 0.001   |
| Digital-display Resolution          | <input type="checkbox"/> moving dot, <input type="checkbox"/> moving bar,<br><input type="checkbox"/> .....   |
| Bargraph-display Mode               | 50 dots   |
| Bargraph-display Resolution         | 12/24 VDC, 40 mA, for transmitter power supply  |
| Output                              | <input type="checkbox"/> 230 VAC, <input type="checkbox"/> 115 VAC, <input type="checkbox"/> 90...250 VAC/DC,<br><input type="checkbox"/> 24 VAC, <input type="checkbox"/> 12...24 VAC/DC   |
| Power Supply                        | less than 4 VA  |
| Consumption                         | 0.4% from span  |
| Measurement Error                   | 0.02% from span for 1 °C  |
| Temperature Drift                   | max. 15 min   |
| Warm-up Time                        | -10...65 °C / 0...85% RH  |
| Operating Temperature / Humidity    | IP54 / IP20   |
| Protection Class: front / terminals |   |

## Warranty and Support

.....  
*serial number*

.....  
*manufacturing date*

QC check mark .....(passed)  
 (stamp)

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QD-8.2.4-WC

### Warranty

COMECO warrants this product to be free from defects in materials and workmanship for 2 years. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see 'Specifications').

### Technical support

In the unlikely event that you encounter a problem with your COMECO device, please call your local dealer or contact directly our support team.

v5-10.08



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## BARGRAPH INDICATOR

### TC66

## OPERATION MANUAL



Please read this Operation Manual before mounting and operating!  
 Save the Manual for future references!

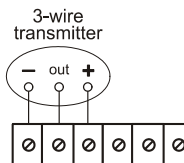
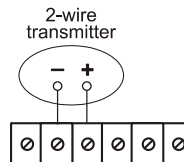
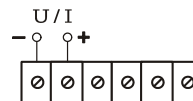
## Overview

The TC66 process indicator is a very simple and well protected against electromagnetic disturbances analog device, designed to indicate process parameter value, previously converted into a linear current or voltage signal. The device is equipped with a 4-digit LED display, showing the exact value of the measured variable, and a 50-dot 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 bar-graph ('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 a DC input for display brightness control. The low-price, low-maintenance TC66 is widely applicable in boat building, power plants, and other industrial areas.

## Mounting

Place TC66 into a 90 x 90 mm (for variant 'B') or 136 x 66 mm (for variant 'D') panel cut-out and tighten into place using the enclosed mounting brackets.

## Wiring



### Important note:

*Power supply must be turned off during the wiring!*

### Input wiring

- ◆ Connect the input through the 2 leftmost terminals on the device back according to the diagram on the left.
- ◆ When connecting a 2-wire transmitter to your TC66 while using the indicator as a supply source for the transmitter, wire as illustrated on the second diagram.
- ◆ To connect a 3-wire transmitter and power it via the TC66's supply output, follow the third scheme.

### Power supply wiring

- ◆ Connect the right power supply voltage for your device (see '**Specifications**') via its two rightmost terminals.
- ◆ In case of pulse mode power supply 90...250 VAC/DC, ground the device through the terminal next to the supply terminals.

## Operating

- ◆ TC66 starts operating immediately after power-on.
- ◆ The digital display indicates the exact measured value, whereas the graphic display shows the value as a percentage of the measurement range.
- ◆ After the warm-up time, if necessary, calibrate the reading of either display via its respective pair of trimpots – 'S' (SPAN) and 'Z' (ZERO) – accessible through the device rear panel.