

## Loop-powered Indicator TI-200

- ◆ 72x36 panel-type and IP 65 box-type housing
- ◆ 4-digit LCD display
- ◆ Down to 2mA operating loop current
- ◆ Programmable display ranges and alarms
- ◆ Up to 2 alarm outputs
- ◆ Transmitter inside mounting available

The TI-200 model, manufactured by COMECO, is a microprocessor based programmable process indicator, designed especially to be powered from the input current loop. TI-200 is equipped with a fully programmable LCD display from -1999 up to 9999 digits with programmable point position and digital filter as well as a two-button (hidden) keyboard. There are also two alarm limits including their programmable parameters as: set-point, hysteresis, direction, dead time etc. The TI-200 alarm limits control 2 alarm outputs (open collector NPN type) which can be used to control external relays.

Two different housing types are available:

- plastic case for panel mounting with 72x36 DIN front size
- plastic box with IP 65 protection class and 80x80 front size

This model allows a standard in-head transmitter to be incorporated inside the box so TI-200 can be used as a temperature or level transmitter with local programmable display.

The low price, alarm features and flexibility make TI-200 widely applicable in industry and especially when loop current transmission is measured.



TI

### Technical specifications

#### Input

<b>Input type</b>	Loop supply DC current
<b>Operating input range</b>	3 to 22 mA
<b>Measuring range</b>	4 to 20 mA
<b>Digital display range</b>	min. -1999 to max.9999
<b>Display-to-input corresponding</b>	User programmable
<b>Digital point position</b>	User programmable

#### Alarm outputs

(up to 2 alarm outputs)

<b>Output type</b>	Transistor gate (open collector)
<b>Output ratings:</b>	
- output switching current	Max. 100 mA
- output switching voltage	Max. 40 VDC
<b>Alarm limits &amp; parameters</b>	User programmable

#### Accuracy

<b>Measurement error</b>	± 0.05% of span ± 1 digit
<b>Non-linearity</b>	within measurement error
<b>Temperature drift</b>	0.005 % from span for 1 °C

<sup>(1)</sup> input type is specified in customer order

#### Power supply

<b>Loop supply voltage</b>	3 to 36 VDC
<b>Loop supply current</b>	2 to 50 mA

#### Operating conditions

<b>Operating temperature</b>	-10 to 65 °C
<b>Operating humidity</b>	0 to 85 %RH (95% - for box type)

#### Display and keyboard

<b>Digital display</b>	4 digit LCD
<b>Digit height [mm]</b>	14(box type) or 10(panel type)
<b>Keyboard</b>	2 membrane buttons

#### Design and materials

	Panel type	Box type
<b>Case material</b>	Plastic PA	Plastic ABS
<b>Mounting</b>	on panel	free
<b>Cut-out [mm]</b>	71x29	-
<b>Wiring</b>	screw terminals	cable glands
<b>Dimensions [mm]</b>	72x36x60	80x80x60
<b>Weight</b>	Max. 50 g	Max. 200 g
<b>Protection front/terminals</b>	IP54/IP20	IP65

### Ordering code

TI200 - G0 - G5G5 - #1

Code	Feature or option	Code values
<b>G0</b>	Case type	<b>L</b> - panel mounting (73x36 DIN size), <b>Y</b> - IP 65 box case (80x80 front size)
<b>G5</b>	Relay output type	<b>X</b> - none, <b>E</b> - open collector NPN
<b>#1</b>	Clamp for DIN rail mounting	<b>X</b> - none, <b>R</b> - DIN rail clamp installed

For detailed instructions on ordering coding see chapter "ORDERING CODES"!